CONSTRUCTION NEWS

Engineering News-Record, April 30, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded are the following big jobs.

Proposed Work

Organization building, San Francisco, Calif., F. and A. M., $8,000,000 to $10,000,000.

Schools, Knoxville, Tenn., bond election, May 15, $2,225,000.

Loft, New York, N. Y., for S. Barkin, $2,000,000.

Apartment, New York, N. Y., preparing plans, $1,500,000.

Theater and office building, preparing plans, $1,500,000.

School, Roxbury, Mass., preparing sketches, $1,480,000.

State building (offices) Los Angeles, Calif., bond election planned, $1,250,000.

Hotel, New York, N. Y., preparing plans, $1,250,000.

Capitol building, Sacramento, Calif., bond election planned, $1,250,000.

Power plant, Rocky Creek, S. C., plans prepared, $1,250,000.

High school, San Francisco, Calif., preparing plans, $1,200,000.

Railroad, Alberta, Canada, 25-mi., C. P. Ry., $1,000,000.

Bids Wanted On Big Jobs

Bridge sub-structure, Montreal, Que., bids opened Apr. 28, total cost, $8,000,000.

Warehouse, Houston, Tex., soon takes bids, $3,100,000.

Apartment, Jersey City, N. J., soon takes bids, $1,000,000.

Superstructure of filtration plant, Washington, D. C., bids opened about May 1, $1,000,000.

Large Contracts Let During Week

Subway, Philadelphia, Pa., awarded to Keystone State Constr. Co., $16,863,437.

Paper mill, Three Rivers, Que., awarded to Foundation Co., Ltd., Montreal, $3,000,000.

Subway, Rochester, N. Y., awarded to I. M. Ludington's Sons, $1,937,811.

High school, Cleveland, O., awarded to Schirmer-O'Hara Co., Cleveland, $1,035,252.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
WATERWORKS		
May 1	Reading, Mass.	Apr. 30
May 4	Stillwater, Minn.	Apr. 16
May 4	Winthrop Harbor, Ill.	Apr. 30
May 4	Long Island City, N. Y.	Apr. 30
May 4	Brooklyn, N. Y.	Apr. 30
May 4	Milwaukee, Wis.	Apr. 30
May 4	Parshall, N. D.	Apr. 30
May 5	Waseca, Minn.	Apr. 16
May 5	Wisconsin Rapids, Wis.	Apr. 23
May 5	Drummondville, Que.	Apr. 23
May 5	Bayville, N. Y.	Apr. 23
May 5	Wewoka, Okla.	Apr. 30
May 5	Brooklyn, N. Y.	Apr. 30
May 6	Vancouver, B. C.	Apr. 23
May 6	Baltimore, Md.	Apr. 30
May 7	High Point, N. C.	Apr. 9
May 7	Narrowsburg, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 7	De Pere, Wis.	Apr. 30
May 8	Bossier City, La.	Apr. 30
May 9	Columbus, O.	Apr. 30
May 11	Tallahassee, Fla.	Apr. 9
May 12	Jaffrey, N. H. Adv. Apr. 30.	Apr. 30
May 13	Donaldsonville, La.	Apr. 30
May 19	Ridgewood, N. J. Adv. Apr. 30.	Apr. 30
May 28	Quincy, Ill.	Apr. 30
SEWERS		
May 4	Gary, Ind.	Apr. 23
May 4	Adrian, Mich.	Apr. 23
May 5	Summit, N. J. Adv. Apr. 23 and 30.	Apr. 23
May 5	Wewoka, Okla.	Apr. 30
May 5	Ft. Smith, Ark.	Apr. 30
May 5	Phila., Pa.	Apr. 30
May 6	Peterboro, Ont.	Apr. 23
May 7	Claremont, Calif.	Apr. 30
May 7	Long Island City, N. Y.	Apr. 30
May 8	Louisville, Ky. Adv. Apr. 16 to 30.	Apr. 16
May 8	Bossier City, La.	Apr. 30
May 8	Milwaukee, Wis.	Apr. 30
May 9	Columbus, O.	Apr. 30
May 9	Lackawanna, N. Y. Adv. Apr. 30.	Apr. 30
May 9	Elmira, Ont.	Apr. 30
May 12	Magnolia, Ark.	Apr. 30
May 12	Isanti, Minn.	Apr. 30
May 14	Buffalo, N. Y.	Apr. 23
May 14	Ardmore, Pa. Adv. Apr. 30.	Apr. 30
May 15	Springfield, Ill.	Apr. 16
May 15	Lake Forest, Ill.	Apr. 30
May 25	Ojai, Calif.	Apr. 30
June 1	River Grove, Ill.	Apr. 23
June 1	Deerfield, Ill.	Apr. 23
WASTE DISPOSAL		
May 18	Saratoga Springs, N. Y. Adv Apr. 30.	Apr. 30

Bids Close		See Eng. News-Record
BRIDGES		
May 1	Epsom, N. H.	Apr. 30
May 4	Lewistown, Pa.	Apr. 23
May 4	Greensburg, Pa.	Apr. 30
May 5	Sweetwater, Tex.	Apr. 16
May 5	North Carolina	Apr. 30
May 8	Dayton, O. Adv. Apr. 23 and 30.	Apr. 23
May 8	Sweetwater, Tex.	Apr. 30
May 11	New Jersey Adv. Apr. 23 and 30.	Apr. 30
May 11	Los Angeles, Calif.	Apr. 30
May 5	Oklahoma	Apr. 30
May 13	Alabama	Apr. 16
May 26	Portland, Ore.	Apr. 30
June 2	Alagadsden	Apr. 30
June 3	Minnesota Adv. Apr. 30.	Apr. 30
RAILWAYS		
May 7	New Jersey	Apr. 2
EXCAVATION, DRAINAGE IRRIGATION, LEVEES		
May 5	British Columbia	Apr. 30
May 6	Columbus, Neb.	Apr. 30
May 10	Hartford, Conn.	Apr. 30
STREETS AND ROADS		
May 1	Pennsylvania Adv. Apr. 16 to 30.	Apr. 16
May 1	Forest Park, Ill.	Apr. 23
May 1	New Hampshire	Apr. 30
May 1	Steubenville, O.	Apr. 30
May 1	Kingston, Ont.	Apr. 30
May 2	Franklin, Tex.	Apr. 16
May 2	Pennsylvania Adv. Apr. 16 to 30.	Apr. 16
May 2	Tuscumcari, N. M.	Apr. 23
May 2	New Toronto, Ont.	Apr. 30
May 4	North Dakota	Apr. 16
May 4	New York	Apr. 23
May 4	California	Apr. 23
May 4	Los Angeles, Calif.	Apr. 23
May 4	Martinez, Calif.	Apr. 23
May 4	North Dakota	Apr. 23
May 4	Brooklyn Heights (mail Independence), O.	Apr. 23
May 4	New Jersey Adv. Apr. 23 and 30.	Apr. 23
May 4	Lake Placid, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 4	Arizona	Apr. 23
May 4	Adams, Mass. Adv. Apr. 23 and 30.	Apr. 23
May 4	Rensselaer, Ind	Apr. 23
May 4	Scarsdale, N. Y. Adv. Apr. 16 to 30.	Apr. 23
May 4	Westfield, N. Y.	Apr. 23
May 4	Garfield Heights (Cleveland P. O.), O.	Apr. 30
May 4	St. Paul, Minn.	Apr. 30
May 4	St. Johns, Mich.	Apr. 30
May 4	Long Island City, N. Y.	Apr. 30
May 4	Providence, R. I.	Apr. 30
May 4	Akron, O.	Apr. 30
May 4	South Milwaukee, Wis.	Apr. 30
May 4	Two Harbors, Minn.	Apr. 30

Bids Close		See Eng. News-Record
May 4	Dunbar, W. Va.	Apr. 30
May 4	Riverside, Ill.	Apr. 30
May 4	Moorehead, Minn.	Apr. 30
May 4	Phila., Pa.	Apr. 30
May 5	St. Louis, Mo.	Apr. 16
May 5	Sweetwater, Tex.	Apr. 16
May 5	New York, N. Y. Adv. Apr. 16 to 30.	Apr. 16
May 5	Tecumseh, Neb.	Apr. 23
May 5	North Carolina	Apr. 23
May 5	Plymouth, Ind.	Apr. 23
May 5	Warsaw, Ind.	Apr. 23
May 5	Ft. Wayne, Ind.	Apr. 23
May 5	Columbia, Ind.	Apr. 23
May 5	Maryland Adv. Apr. 23 and 30.	Apr. 23
May 5	North Dakota	Apr. 23
May 5	Hartford, Wis.	Apr. 23
May 5	Winona, Miss.	Apr. 23
May 5	Primghar, Ia.	Apr. 23
May 5	Baton Rouge, La.	Apr. 30
May 5	Tulsa, Okla.	Apr. 30
May 5	Colusa, Calif.	Apr. 30
May 5	Duluth, Minn.	Apr. 30
May 5	Elkins, W. Va.	Apr. 30
May 5	Winona, Miss.	Apr. 30
May 5	Wewoka, Okla.	Apr. 30
May 5	Boston, Mass.	Apr. 30
May 5	Indiana	Apr. 30
May 5	Valparaiso, Ind.	Apr. 30
May 5	Compton, Calif.	Apr. 30
May 5	Oklahoma	Apr. 30
May 5	Jefferson, Ia.	Apr. 30
May 6	San Francisco, Calif.	Apr. 16
May 6	Williamstown, Ont.	Apr. 23
May 6	North Dakota	Apr. 23
May 6	New York, N. Y.	Apr. 30
May 6	Long Island City, N. Y.	Apr. 30
May 6	Ackley, Ia.	Apr. 30
May 6	Franklin Park, Ill.	Apr. 30
May 6	Illinois	Apr. 30
May 7	Louisiana	Apr. 23
May 7	North Dakota	Apr. 23
May 7	Broken Bow, Neb.	Apr. 23
May 7	East Providence (Providence P. O.), R. I. Adv. Apr. 30.	Apr. 30
May 7	St. George, N. Y.	Apr. 30
May 7	Des Moines, Ia.	Apr. 30
May 7	Gulfport, Miss.	Apr. 30
May 8	Hebron, Neb.	Apr. 23
May 8	Worthington Minn.	Apr. 30
May 8	Idaho	Apr. 30
May 8	Huntington, W. Va.	Apr. 30
May 8	Sweetwater, Tex.	Apr. 30
May 8	Alpine, Tex.	Apr. 30
May 9	Sweetwater, Tex.	Apr. 30
May 11	New Jersey Adv. Apr. 23 and 30.	Apr. 23
Mya 11	California	Apr. 30
May 11	Illinois	Apr. 30
May 11	San Diego, Calif.	Apr. 30
May 11	Huntington, Ind. Adv. Apr. 30.	Apr. 30
May 12	Liberty, Tex.	Apr. 30
May 12	El Paso, Tex.	Apr. 30
May 12	Maryland Adv. Apr. 30.	Apr. 30
May 12	Louisiana	Apr. 30
May 12	Washington	Apr. 30

Bids Close		See Eng. News-Record
May 12	Auburn, N. Y. Adv. Apr. 30.	Apr. 30
May 12	Oklahoma	Apr. 30
May 12	Bridgeton, N. J. Adv. Apr. 30.	Apr. 30
May 13	Alabama	Apr. 9
May 13	North Dakota	Apr. 23
May 13	Homer, La.	Apr. 23
May 13	Ithaca, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 13	Baltimore, Md.	Apr. 30
May 14	Louisiana	Apr. 30
May 15	Duluth, Minn.	Apr. 9
May 15	Fayette, W. Va.	Apr. 23
May 15	Lake Forest, Ill.	Apr. 23
May 15	Canton, O.	Apr. 30
May 18	St. Petersburg, Fla. Adv. Apr. 30.	Apr. 30
May 20	Cape May, N. J. Adv. Apr. 23 and 30.	Apr. 23
May 20	Delaware Adv. Apr. 30.	Apr. 30
May 21	Poughkeepsie, N. Y. Adv. Apr. 30.	Apr. 30
May 30	Bucoda, Wash.	Apr. 30
June 1	Duluth, Minn.	Mar. 12
June 10	Duluth, Minn.	Apr. 9

BUILDINGS—INDUSTRIAL

May 4	White Plains, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 6	Rapid City, S. D.	Apr. 23
May 8	Neopit, Wis.	Apr. 16
May 8	Watertown, Wis.	Apr. 30
May 11	Los Angeles, Calif.	Apr. 30
May 15	Terra Haute, Ind.	Apr. 30

BUILDINGS—COMMERCIAL

May 1	Johnstown, Pa.	Mar. 19
May 1	Clinton, N. J.	Apr. 23
May 1	Providence, R. I.	Apr. 30
May 1	Chicago, Ill.	Apr. 30
May 4	Concord, N. H.	Apr. 30
May 5	Dayton, O.	Apr. 23
May 5	Tampa, Fla.	Apr. 30
May 5	Pitman, N. J.	Apr. 30
May 5	Hanover, Pa.	Apr. 30
May 6	Pickering, N. C.	Apr. 23
May 6	Hickory, N. C.	Apr. 23
May 6	Cape May, N. J. Adv. Apr. 23 and 30.	Apr. 30
May 7	San Antonio, Tex.	Mar. 26
May 7	Bethlehem, Pa.	Apr. 30
May 7	Alliance, O.	Apr. 30
May 11	Asyla (mail Grenlock), N. J.	Apr. 23
May 12	York, Pa.	Apr. 30
May 14	Thiells, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 23	New Orleans, La. Adv. Apr. 30.	Apr. 16
June 2	Walters, Okla.	Apr. 23
July 14	Phila., Pa.	Feb. 19

BUILDINGS—EDUCATIONAL, RELIGIOUS

May 1	Cranston, R. I.	Apr. 23
May 2	Ridgefield, Conn.	Apr. 30
May 4	Great Neck, N. Y.	Apr. 16
May 4	Toronto, Ont.	Apr. 23
May 4	Glen Ellyn, Ill.	Apr. 30
May 5	Chicago, Ill.	Apr. 30
May 5	Newago, Mich.	Apr. 30
May 5	Muskegon, Mich.	Apr. 30
May 7	West Chester, Pa.	Apr. 30
May 8	Minneapolis, Minn.	Apr. 30
May 9	Jackson, Miss.	Apr. 30
May 14	Hillside, N. J.	Apr. 23
May 15	South Charleston, D.	Apr. 23
May 19	Austin, Tex.	Apr. 30
May 20	Dayton, O.	Apr. 30
June 10	Evanston, Ill.	Apr. 23

FEDERAL GOVERNMENT WORK

May 1	Dredging — Providence, R. I.	Apr. 2
May 4	Breakwater—Duluth, Minn. Adv. Apr. 9 to 30.	Apr. 9
May 4	Transmission Line—Florence, Ala.	Apr. 30
May 4	Dredging—Charleston, S. C.	Apr. 30
May 5	Rip Rap Stone—Vicksburg, Miss.	Apr. 16
May 5	Hospital—Mobile, Ala.	Apr. 23
May 6	Chimney—Brooklyn, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 6	Post Office—Houghton, Mich.	Apr. 16
May 6	Wall—San Juan, P. R.	Apr. 16
May 6	Road—Colorado	Apr. 30
May 7	Dam-Newburg, Ind. Adv. Apr. 9 to 30.	Apr. 9
May 7	Post Office—Thomasville, N. C.	Apr. 16
May 11	Metal Works—Louisville, Ky. Adv. Apr. 16 to 30.	Apr. 16
May 11	Post Office—Mystic, Conn.	Apr. 23
May 11	Rip Rap Stone—Memphis, Tenn.	Apr. 23
May 11	Dredge—Wash., D. C.	Apr. 23
May 13	Chimney—Melville, R. I.	Apr. 30
May 15	Breakwater—Duluth, Minn. Adv. Apr. 23 and 30.	Apr. 23
May 15	Steel Castings—Louisville, Ky. Adv. Apr. 30.	Apr. 30
May 16	Hull for Towboat—Rock Island, Ill. Adv. Apr. 23 and 30.	Apr. 23
May 19	Post Office — Aberdeen, Wash.	Apr. 30
May 20	Post Office—Fayette, Mo. Adv. Apr. 23 and 30.	Apr. 23
May 20	Brush and Poles—Memphis, Tenn.	Apr. 30
May 21	Quarters — Oceanport, N. J. Adv. Apr. 23 and 30.	Apr. 30
May 22	Dike—Detroit, Mich. Adv. Apr. 23 and 30.	Apr. 30
May 26	Hospital—Lake City, Fla. Adv. Apr. 23 and 30.	Apr. 30
May 27	Tow-boat—St. Louis, Mo.	Apr. 23
July 8	Hospital—Canacao, P. I.	Apr. 16

UNCLASSIFIED

May 4	Transmission Line—Minnesota	Apr. 30
May 5	Street Lighting System — Brainard, Minn.	Apr. 30
May 7	Subway—New York, N. Y.	Apr. 23
May 8	Tunnel—New York, N. Y.	Mar. 5
May 8	Borings—New York	Apr. 30
May 11	Steam Heating Plant — Doylestown, Pa. Adv. Apr. 23 and 30.	Apr. 30
May 12	Wharf, etc.—Goderich, Ont.	Apr. 30
May 14	Street Lighting System—Watertown, N. Y.	Apr. 30
May 27	Fire Alarm System—Ogdensburg, N. Y. Adv. Apr. 30.	Apr. 30

MATERIALS

May 1	Road Oil—Saulte Ste. Marie, Ont.	Apr. 30
May 4	Iron and Steel Castings—New York, N. Y.	Apr. 30
May 4	Road Materials—Greensburg, Pa.	Apr. 30
May 5	Road Oil—Hartford, Conn. Adv. Apr. 30.	Apr. 30
May 5	Road Materials—St. Paul, Minn.	Apr. 30

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Lackawanna—Plans water plant, to exceed $50,000.

Ind., Marion—Soon takes bids 8,000 ft. rein.-con. mains in various streets. C. Hamilton, city clk.

Mich., Clawson—Made plans 100,000 gal. flat bottom steel tank, 500 gal. per minute centrifugal pump, 21 x 36 x 36 ft. and 8 x 24 x 30 ft. timber buildings for tank and pumps respectively. N. H. Huntley, Clawson, engr.

Ill., Jerseyville — Making preliminary plans 7 to 8 mi. 4 and 6 in. c.i. mains, etc., in various streets. $75,723. A. H. Beard Co., 616 Title Guaranty Bldg., St. Louis, Mo., engrs.

Ill., Morton—Making plans extending 4- to 8-in. c.i. mains in various streets. $25,000. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, consult. engrs.

Ill., South Pekin—Making plans waterworks improvements, incl. new pumping station, elevated steel tank and distribution system. $60,000. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, consult. engrs.

Ill., Whitehall—Voted $58,000 bonds, extending waterworks.

Wis., Cobb — Voted $15,000 bonds for waterworks. W. W. Kolb, village clk.

Wis., Waupaca — Soon takes bids 900 g.p.m. water pump. F. A. Houseman, city clk.

Ia., Diagonal — Soon takes bids new waterworks, incl. pumping equipment, mains, etc. $24,000. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engr. Noted Jan. 15.

Ia., New Albin—Voted $23,000 bonds for waterworks pumping equipment, distribution mains, etc. H. R. Green Eng. Co., Bever Bldg., Cedar Rapids, engr.

Kan., Arkansas City — Voted $65,000 bonds, for 24 in. c.i. flow line from city wells along Arkansas River to city pumping station and reservoir. Noted Mar. 19.

Kan., Aurora—Defeated $27,000 bonds for waterworks and distribution system. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs. Noted Apr. 2.

Kan., Norcatur—See "Contracts Awarded."

Tex., Flatonia—Voted $30,000 bonds for waterworks. Noted Mar. 12.

Tex., Lamesa—Plans 4.5 mi. water mains and 3.5 mi. sewers in various streets. $[illegible],000 and $17,000 respectively. Hawley & Roberts, Ft. Worth, engrs. Noted Feb. and 12.

Tex., Temple — Voted $50,000 bonds waterworks improvements, incl. mains, new pumping equipment, etc. Engineer not selected. Noted Mar. 19.

Okla., Altus—City Council retained Burham Eng. Co., consult. engrs., Gumbel Bldg., Kansas City, Mo., to make surveys and investigations for permanent water supply. $400,000-$800,000. Noted Apr. 16.

Okla., Marland—Voted $20,000 bonds, for waterworks, incl. well, deep well pump, tank on tower, mains, etc. Noted Oct. 9.

Okla., Tulsa—Voted $500,000 bonds, completing Spavinaw water system and also provide $150,000 for main extensions within city. Holway Eng. Co., Wright Bldg., engrs. Noted Apr. 2.

Calif., Brentwood—Plans water system, $20,000.

Calif., Burlingame—Making surveys improving and extending water system for fire protection. $175,500. C. A. Torello, city engr.

Calif., Byron—See "Unclassified."

Calif., Chowchilla—Plans election $25,000 bonds to purchase, improve and extend privately owned waterworks.

Calif., South Gate—Plans election $181,000 bonds of which $125,000 is to purchase privately owned waterworks, and balance for extensions.

Ont., Hamilton — Plans increasing capacity of pumping station at Burlington and Gage Aves. from 20 m.g. to 68 m.g. per day. $100,000. W. L. McFaul, city engr.

Ont., North Bay—Plans 12,000 ft. 4 and 6 in. c.i. mains in various streets. $30,000. F. G. Mackie, city engr.

Ont., Welland — Made plans concrete, brick and steel filtration plant, electric pumps, four 1,500,000 gal. filters, 1,500,000 gal. rein.-con. reservoir. $300,000. W. Chipman, Mail Bldg., Toronto, engr.

BIDS DESIRED

N. H., Jaffrey—May 12, by Com. Additional Water Supply, Selectmen's office, East Jaffrey, masonry dam on Mead Brook. Contr. A, and c.i. pipe line connecting existing mains at Jaffrey Center, Contr. B. Sanborn & Bogert, 30 Church St., New York City, consult. engrs.; adv. E. N.-R. Apr. 30.

Mass., Reading — May 1, by Bd. Pub. Wks., Municipal Bldg., storm water drainage works. $15,000. Barbour & Dixon, Tremont Bldg., Boston, engrs.

N. Y., Brooklyn—May 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ave. I, 9th and Hegeman Aves., 53rd and East 98th Sts., here.

N. Y., Brooklyn—May 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Autumn, Bedford and Belmont Aves., etc., here.

N. Y., Long Island City—May 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Arrandale Pl., Parsons Blvd., 78th Rd., 160th, 162nd, Juno and Nansen Sts., Congress, Herrick, Pleasant View, Stafford and Townsend Aves., here.

N. J., Ridgewood — May 19, by Village Comrs., Town Hall, deep well and pumping system. E. J. Fort, village engr.; adv. E. N.-R. Apr. 30.

Md., Baltimore—May 6, by Bd. Awards, 3 Venturi meter tubes and special registers to Water Dept., f.o.b. Baltimore. V. B. Siems, City Hall, water engr.

La., Bossier City — May 8, by Town Council, 100 ft. 10 in., 6,470 ft. 8 in., 6,570 ft. 6 in., 18,256 ft. 4 in. and 4,700 ft. 2 in. c.i. pipe, 15,717 lb. c.i. specials, 30 x 56 ft. pumphouse, 150,000 gal. reservoir, 100,000 gal. tank on 125 ft. tower. E. T. Archer & Co., Shreveport, and New England Bldg., Kansas City, Mo., engrs.

La., Donaldsonville—May 13, by Bd. City Comrs., filtration plant, tower and settling tank, reservoir, pumps, etc. $50,000. J. W. Billingsley, Interstate Trust Bldg., New Orleans, consult. engr. Noted Apr. 23.

O., Columbus — May 9, by Bd. Comrs. Franklin Co., 8,900 ft. 6 in. and 3,500 ft. 8 in. mains in Impvt. 5, Sewer Dist. Truro 1, Contr. 45.

Ill., Quincy — May 28, by Waterworks Comn., 314 Main St., concrete roof and concrete or gun lining, etc., for high service reservoir. W. R. Gelston, Mgr.; adv. E. N.-R. Apr. 30.

Waterworks (Continued)

Ill., Winthrop Harbor—May 4, by Bd. Local Impvts., mains in 11th St. and College Ave. $7,975 and $2,750 respectively. J. P. Anen, pres.; adv. E. N.-R. Apr. 30.

Wis., De Pere—May 7, by M. J. Maes, secy. Bd. Water Comrs., pumping station, 100 g.p.m. motor driven centrifugal pump with automatic starter and switchboard, etc. W. G. Kirchoffer, 22 North Carroll St., Madison, engr.

Wis., Milwaukee—May 5, by Central Bd. Purchases, D. W. Hoan, chn., approximately 195,978 tons plain and lugged c.i. pipe, etc.

N. D., Parshall—May 4 (extended date), by City, one Gould centrifugal pump and 40 hp. motor for 110 volt D.C. A. O. Fugile, city aud. Noted Apr. 23.

Ark., Magnolia—Taking bids 41,754 ft. 4- to 6-in. c.i. and 10,550 ft. 2 in. galvanized pipe, 21,620 lb. c.i. specials, 14 c.i. wet connections, etc. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs. Noted Dec. 4.

Okla., Wewoka—May 5, by D. R. Fraser, city clk., waterworks extensions and small concrete dam across Wewoka Creek, 37,910 ft. 4- to 8-in. c.i. pipe, etc. $50,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 16.

BIDS RECEIVED

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, 7,380 lin.ft. 56 in. Mammerweld or lock bar steel pipe or 60 in. riveted steel pipe, etc., in Arlington and Somerville, from C. & R. Constr. Co., 67 Harrison St. E., West Roxbury, $205,775. Noted Apr. 16.

O., Cleveland—Cuyahoga Co., 6,800 ft. 12 in. c.i. mains in Impvt. 81, from Gantone Constr. Co., Columbia Bldg., $33,778; 6,759 ft. 6 and 8 in. c.i. mains in Impvt. 354, from A. Marra Constr. Co., Ulmer Bldg., $16,852. Noted Apr. 9.

CONTRACTS AWARDED

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc. in Amsterdam, 3rd and 11th Aves., to Knight & DeMicco, 448 East Tremont Ave., $62,526. Noted Apr. 23.

La., Lafayette—See "Streets and Roads."

O., Garfield Heights (Cleveland P. O.)—Village, c.i. mains in 2 streets to D. N. Zullo, 706 The Arcade, Cleveland, $14,451; 1 street, to McMahon Constr. Co., 12717 Arlington Ave., Cleveland, $4,308. Work involves 6,000 ft. 6 in. c.i. pipe. Noted Apr. 9.

O., Girard—Filtration plant and installing most equipment, to Burnip Constr. Co., Girard, $42,700; pumps to Buffalo Pump Co., 490 Bway., Buffalo, N. Y., $1,650. Engrs. est. $50,000.

Mich., Iron Mountain—Bd. Water Comrs., 90 tons 6 in. c.i. pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $49.75 per ton.

Wis., Cambria—City, c/o H. C. Davis, city clk., laying water and sewers in various streets, to Rebbens Bros., Mayville, $22,919; 2 disposal plants, pumping station, reservoir, tank, etc., to C. H. Phillips, Keyes Ave., Madison, $8,400; pumps to Amer. Well Works, Aurora, Ill., $2,195; tank and tower to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill., $56,275; meters, to Neptune Meter Co., 565 Washington Bldg., Chicago, Ill., $1,260. Noted Jan. 8.

Wis., New Holstein—L. W. Hipke, village clerk, to P. Becker, New Holstein, constructing reservoir, excav. at $1.95 per cu. yd., reinforcing steel at $0.03 per lb., concrete at $17.50 per cu.yd.; to Indiana Air Pump Co., 812 Indiana Pythian St., Indianapolis, Ind., centrifugal pump and motor also air lift equipment and motor, $4,437. Noted Mar. 19.

Kan., Norcatur — Tank on tower, distribution mains, etc., to G. B. Morrish, Oberlin, $30,875. Wells and pumps to be let separately. Noted Apr. 2.

Tex., Houston—City, c/o O. F. Holcombe, mayor, 30,000 gal. rein.-con. collecting tank, to A. M. Arnold, 601 Keystone Bldg., $15,424. Engrs. est. $20,000. Noted Jan. 29.

Colo., Salida—For reservoir repairs, 4- to 8-in. c.i. main extensions, etc., in various streets, to Bateman Hardware Co., Salida, $87,000.

Calif., Corona—Parkridge Country Club, combination reservoir, approximately 9 mi. 1.5- to 8-in. mains and 100,000 gal. swimming pool, to S. Smith, 2025 Bay St., Los Angeles, approximately $40,000.

Calif., Glendale — City will install c.i. mains in Verdugo Canyon Rd., Hillside Dr., portions of Palmer, Magnolia and Acacia Sts., etc., by day labor. $35,850.

Calif., Nuevo—Nuevo Gardens Co., one 1,000 bbl. tank, pump with motor and 3.5 mi. 3.5- to 6-in. diam. pipe line, to S. Smith, 2025 Bay St., Los Angeles, approximately $17,500.

Calif., South Pasadena — City Trustees reconstructing Garfield Ave. reservoir, approximately 1,100 cu.yd. rein.-con. walls, etc., to J. S. E. Houk, Washington Hotel, Culver City, $53,178. Noted Apr. 16.

Ont., Toronto—York Twp., 40 Jarvis St., 6- to 12-in. c.i. pipe, to Natl. Iron Corp., foot Cherry St., $27,200; lead pipe to Canada Metal Co., 39 Fraser St., $16,364; hydrants to Bowden Machine Co. Ltd., Sterling Rd., $4,550; check and stop valves, to Drummond McCall & Co. Ltd., 373 Front St. E., $1,312.

Sewers

PROPOSED WORK

Mich., Detroit — Dept. Pub. Wks. made plans 2,748 ft. 12- to 18-in. vitr. pipe in Lateral 4329; 8,060 ft. 12- to 30-in. vitr. and 126 ft. 3 in. brick cylinder in Lateral 4334; 349 ft. 12- to 15-in. Lateral 4337; 3,649 ft. 12- to 24-in. Lateral 4338; 1,415 ft. 12- to 18-in. Lateral 4350; and 7,568 ft. 12- to 24-in. Lateral 4351. G. Jerome, city engr.

Mich., Detroit—Dept. Pub. Wks. making plans 3,273 ft. Livernois-Curtis Arm, Sect. 1, of Six Mile Rd. Sewer, 2,663 ft. 6 ft. 3 in. and 589 ft. 3 ft. 6 in. cylinder in Livernois and Curtis Aves.; 5,743 ft. Livernois-Curtis Arm Sect. 2, of Six Mile Rd. Sewer, 1,452 ft. 4 ft. 6 in., 1,332 ft. 4 ft. and 2,464 ft. 3 ft. 6 in. cylinder in Curtis Ave.; 1,970 ft. 14th Ave. Arm sewer, 2,820 ft. Waveney Ave. Arm of Ashland Ave. Sewer in Waveney Ave., 900 ft. 5 ft., 1,084 ft. 4 ft., and 616 ft. 3 ft. cylinder, also 155 ft. 8 in. and 65 ft. 15 in. crock connections; 3,353 ft. Waveney Ave. Arm of Bedford Rd. Sewer, 300 ft. 5 ft. 6 in., 1,226 ft. 4 ft. 9 in., 1,633 ft. 3 ft. 9 in. cylinder. G. Jerome, city engr.

Ill., Vandalia—Made plans 36,000 ft. 8 and 12 in. vitr. clay sewers, etc., in various streets. $54,487. A. H. Beard Co., 616 Title Guaranty Bldg., St. Louis, Mo., engrs.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., made plans brick and concrete booster stations, with centrifugal pumps or sewage ejectors, one at 41st St. and Park Hill Ave., and one at Lake Dr. and Fairmount Ave. $20,000 each. T. C. Hatton, c/o owner, engr.

Tex., Flatonia—Voted $40,000 bonds for sewerage system. Noted Mar. 12 under "Waterworks."

Tex., Lamesa—See "Waterworks."

Tex., San Angelo—Voted $275,000 bonds, sewage disposal plant. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Mar. 26.

Okla., Muskogee—Making surveys 25,000 ft. 8- to 15-in. vitr. clay sewers, etc., in Dists. 88, 89 and 90. $27,000. J. R. March, Muskogee, engr.

Okla., Westville—Election in May $25,000 bonds for 11,000 ft. 6- to 12-in. vitr. clay sewers in all streets. Noted Jan. 8.

Calif., Long Beach — Made plans 55,839 ft. 8- to 12-in. cement sewers, etc., Pump Dist. 9. To exceed $80,000. C. F. Smith, 504 City Hall, San Francisco, engr.

Calif., North Sacramento — Made plans 62,700 lin.ft. 6- to 15-in. vitr. sewers, etc. in various streets. C. C. Kennedy, Call Bldg., San Francisco, engr.

Calif., Oakland—City Council soon takes bids Elmhurst Storm sewer and extensions, approximately 2 mi. 21- to 48-in. rein.-con. pipe, etc. $380,000-$400,000. W. W. Harmon, city engr.

Calif., Petaluma—Plans sewage treatment plant. Will probably vote bonds to exceed $50,000 to finance same.

Calif., San Leandro—Making plans 1,495 ft. 8- to 18-in. vitr. sewer in East 14th St. between Oakes Blvd. and San Leandro Creek. F. A. Nikirk, city engr.

Calif., Ventura—Making plans extending sewers in various streets. $125,000-$150,000. C. W. Pierce, city engr.

Ont., London — Making plans rein.-con. sewage disposal plant, High St. $60,000. W. P. Near, city engr.

Ont., Mt. Dennis—York Twp., 40 Jarvis St., Toronto, made plans 15 mi. 8- to 30-in. concrete, rein.-con. and vitr. clay sewers in Mt. Dennis Dists. $470,835. F. B. Goedike, 40 Jarvis St., Toronto, twp. engr.

Ont., Ottawa—Plans 6,000 ft. 18 in. vitr. tile sewers in Harmer Ave., et al. $28,000. A. F. Macallum, city engr.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, plans 1,065 ft. 24 and 27 in. rein.-con. sewer in Mortimer Ave. $41,085. G. R. Jack, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans 4,400 ft. 43- to 54-in. rein.-con. trunk sewer in Fairbank Dist. $125,000. F. B. Goedike, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., making plans 11,460 ft. vitr. tile and concrete sewers in Gloucester Grove, Raglan Rd., Lauder, Heathdale, Cloveley, Bude, Belvidere, Lanark and Schrader Aves. $80,000. F. B. Goedike, twp. engr.

BIDS DESIRED

N. Y., Lackawanna—May 9, by City, at Chamber of Commerce, City Hall, sewage disposal plant and pump station. F. K. Wing Co., 1314 Prudential Bldg., Buffalo, engrs.; adv. E. N.-R. Apr. 30.

N. Y., Long Island City—May 7, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sanitary sewers in 132nd St. (Atfield Ave.), Horstman and Baker Aves., 150th St. (Stanley Ave.) from 133rd St. (Nebraska Ave.) to 132nd St. (Atfield Ave.), and 150th St. (Stanley Ave.) from 133rd St. (Nebraska Ave.) to 134th St. (Baker Ave.).

Pa., Ardmore — May 14, at Commissioners Office, Lower Merion Twp., sewage pump and motor and removing existing gas engine, pump, etc., at Mill Creek Sewage Pumping station. Albright & Mebus, 1502 Locust St., Phila., civil engrs.; adv. E. N.-R. Apr. 30.

Pa., Phila.—May 5, by Dept. Pub. Wks., Bureau Engineering, main sewer in Castor, Magee, Summerdale, Comly and Loretto Aves.; branch sewer in Mermaid Lane, Frankford, Cedar Park, Cheltenham, Erie, Hunting Park, Summerdale, Ryan, Sedgley, Torresdale and Wayne Aves., Jackson, Balfour, Bleigh, Cadwallader, Coleman, Cottage, Crittenden, "N," 20th, Princeton, Rutland and Wakeling Sts.

La., Bossier City—May 8, by Town Council, 25,304 ft. 8 in., 7,224 ft. 10 in., 1,090 ft. 15 in., 84 ft. 8 in., and 310 ft. 10 in. vitr. sewers, etc., in various streets. E. T. Archer & Co., Shreveport, and New England Bldg., Kansas City, Mo., engrs.

O., Columbus — May 9, by Bd. Comrs. Franklin Co., 14,330 ft. 8 in. vitr. sewers, etc., in Impvt. 60, Sewer Dist. Clinton 2, Contr. 60.

Ill., Lake Forest—May 15, by City Clerk, 6,020 ft. 6- to 12-in. tile sewers in Hields Lake Forest Ravine Park. $25,000. N. N. Campbell, 4 Market Sq., engr.

Wis., Milwaukee—May 8, by Sewerage Comn., 4,021 ft. 21 in. and 281 ft. 18 in. terra cotta pipe, etc., for Menomonee Low Level sewer.

Minn., Isanti — May 12, by G. H. Chalmers, city clk., sanitary sewers in various streets, Schedule 1, 1,010 ft. 8 in. 620 ft. 10 in., 5,150 ft. 12 in. pipe, 9 standard and 13 special manholes, etc.; Schedule 2, 9,350 ft. 8 in., 2,400 ft. 10 in., 5,150 ft. 12 in. pipe, 37 standard and 9 special manholes, etc. $25,000-$30,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Ark., Ft. Smith—May 5, by T. A. Norris, judge Sebastian Co., new sewage pumping station at County hospital, incl. 3,660 ft. 6 in. c.i. and 375 ft. 8 in. vitr. clay pipe, one 250 g.p.m. pump, driven by 15 hp. motor, etc. $28,000. W. L. Winters, 311 Merchants Natl. Bank Bldg., engr.

Ark., Magnolia — May 12, by Bd. City Comrs., sewers in Impvt. Dist. 1, 36,435 ft. 0 to 6 in. trenching and back fill, 19,055 ft. 6- to 18-in. cut, 41,345 ft. vitr. clay, and 14,085 ft. 8- to 10-in. c.i. pipe, 2 disposal plants, Imhoff tanks, etc. E. T. Archer, New England Bldg., Kansas City, Mo., engrs. Noted Aug. 7.

Tex., Dallas—A. Blaylock, mayor, and A. E. Kingsley, city engr., taking bids pumping station, Birmingham St. $70,000.

Okla., Wewoka—May 5, by D. R. Fraser, city clk., disposal plant extending sanitary sewerage system, and new outfall sewers, etc., in various streets, incl. 11,600 ft. 8- to 15-in. vitr. clay pipe, Imhoff tank and sludge bed. $54,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 5.

Calif., Claremont—May 7, by City Trustees 46,410 ft. 6- to 10-in. cement sewers in various streets. O. A. Gierlich, First Natl. Bank Bldg., Monrovia, engr.

Calif., Ojai—May 25, by L. D. Conklin, city clk., Imhoff tank and sprinkling filter complete except filtering rock; secondary tank and sludge beds with connecting drains; 1,300 ft. 10 in. vitr. pipe, one 90 ft. wooden trestle, for sewage treatment plant, etc.

Calif., Palo Alto — City Council taking bids sewers in Oregon Ave. and Seale D. D., 19,347 ft. 12- to 27-in. concrete pipe, 54 catchbasins, etc.; also in South Palo Alto Dist., 20,000 ft. 6 and 8 in. vitr. pipe, etc. J. F. Bxybee, Jr., city engr.

Calif., Santa Barbara—City Council taking bids rein.-con. storm drain and concrete box culverts, etc., in portions of Laguna St., etc. (East Side Drainage Project). To exceed $100,000. G. D. Morrison, city engr.

Ont., Elmira—May 9, by J. H. Ruppel, town clk., sewage disposal plant, rein.-con. septic tanks. $35,000. H. Johnston, 62 Frederick St., Kitchener, engr.

BIDS RECEIVED

Mass., Boston — Dept. Pub. Wks., City Hall, sewerage works in Cambridge and Court Sts., from C. & R. Constr. Co., 67

Sewers (Continued)

Harrison St. E., West Roxbury, $81,200. Noted Apr. 16.

Mass., Needham—Sewers in Sect. 1 from General Constr. Co., 115 Kittredge St., Rosindale, $53,000; Sect. 2, from L. Balboni, 419 Belgrade Ave., Rosindale, $34,000. Noted Apr. 16.

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, Apr. 22 **(e. e. means engineer's estimate)**, sewers in Elmwood Ave., from A. W. Matarazzo, 74.23% e. e. $11,518; 8th St., from Standard Constr. Co., 705 Park Ave., 68% e. e. $8,125; in Maple St., from R. Iovino, $1.25% e. e. $4,060. Noted Apr. 16.

CONTRACTS AWARDED

Massachusetts—Metropolitan Dist. Co., 1 Ashburton Pl., Boston, in Mill Brook Valley Sewer, Sect. 78 North Metropolitan System in Arlington and Medford, 3,325 ft. pipe, to A. Barriffaldi, 52 Powder House, Blvd., Somerville, $110,235. Noted Apr. 9.

O., Cincinnati—City, 960 ft. 12 and 24 in. vitr. clay, and 1,230 ft. brick sewer in Davis Lane between Robb St. and point 1,230 ft. south, to T. Maloney, 1858 Taft Rd. $20,063. Engrs. est. $26,900. Noted Apr. 23.

O., Cleveland—Cuyahoga Co., 12,200 ft. 8- to 12-in. tile sewer in Impvt. 304, to Hadded-Mall Co., Schofield Bldg., Cleveland, $26,384. Noted Apr. 23.

Mich., Grand Rapids—Sewers in Michigan St. and Fuller Ave., to J. Brogan & Son, Green Bay, Wis., $49,763.

Wis., Cambria—See "Waterworks."

Mo., Kansas City — Sanitary sewer in Div. 6, to T. P. Thompson, 3908 Forest Ave., $27,400.

Wash., Yakima — Sewerage system northwest section of city, incl. modern addition, to McHugh & Coluccio, $86,716. Engrs. est. $90,000.

Calif., Oakland—For vitr. and concrete outfall sewer in 7th St., to J. Currie, 1100 Peninsula Ave., Burlingame, $198,634. Noted Apr. 23.

Calif., Oakland—For 8 in. vitr. sewer in portions of Laurel and Maple Aves., etc., to W. J. Tobin, 527 Santa Ray Ave., $41,560.

Calif., San Diego—A. H. Wright, city clk., 18,155 ft. 6 and 8 in. concrete sewers in South LaJolla St., to J. N. Chandler, 4067 Van Dyke St., $27,417. Noted Apr. 16.

Calif., San Fernando—City Trustees, concrete main outfall sewer, complete Imhoff tank and sprinkler filter sewage disposal work, to M. Matich, 1436 West 15th St., Los Angeles, $39,181. Noted Apr. 9.

Ont., Toronto—For 3,000 lin.ft. 8 in. vitr. tile to 30 in. rein.-con. sanitary and trunk sewers in Strachan Ave. to T. C. Agnew, 350 Concord Ave., $17,270; sewer pumping main in South Parkdale System, also Burnside Dr., to W. E. Taylor, 22 Falcon St., $6,485 and $4,290 respectively; Glen Stewart drainage system, to A. E. Jupp Constr. Co., 170 Berkeley St., $1,358. Engrs. est. $30,000.

Ont., Toronto—York Twp., 3,300 ft. 33- to 42-in. rein.-con. sewer in Oakwood Ave. to Arlington Ave., to W. E. Taylor, 22 Falcon Ave., $45,967. Engrs. est. $50,000. Noted Apr. 16.

Waste Disposal

PROPOSED WORK

Ont., Kingston—Plans garbage disposal plant, concrete and brick. $30,000-$50,000. H. S. Dick, city engr.

BIDS DESIRED

N. Y., Saratoga Springs—May 18, by J. B. White, comr. Accounts, City Hall, garbage incinerator plant. S. J. Mott, 377 Bway., city engr.; adv. E. N.-R. Apr. 30.

Bridges

PROPOSED WORK

Massachusetts — Commonwealth of Massachusetts, State House, Boston, plans new bridge across Charles River between Larz Anderson and Western Ave. Bridges in Boston and Cambridge. $300,000. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Ala., Decatur—State Hy. Dept., Montgomery, takes bids in May, steel and concrete bridge, Limestone and Morgan Counties, here. $500,000. W. S. Keller, highway engr. Noted Feb. 19 under "Alabama."

Miss., Gulfport—See "Streets and Roads."

Tenn., Nashville — Davidson Co. plans election $1,000,000 bonds for bridge over Cumberland River near Old Hickory Powder plant. L. Hickman, co. judge.

Wis., North Milwaukee — Voted $35,000 bonds, for 3 new bridges. H. C. Webster, 216 West Water St., Milwaukee, engr. Noted Feb. 19.

Wis., South Milwaukee—Voted $25,000 bonds repairing existing bridge and constructing new bridge over Oak Creek. R. J. Schauer, city clk. Engineer not selected.

Kan., Council Groves—See "Streets and Roads."

Kan., Ottawa—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., San Angelo—City and Tom Green Co. voted $20,000 bonds each for steel and concrete bridge. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., San Antonio — Takes bids about June 1, 90 ft. rein.-con. and steel bridge, 4th St. $30,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., engrs.

Okla., Kenton — State Hy. Dept., Oklahoma City, making preliminary plans 14 span 200 ft. pile trestle bridge over Carrizos Creek, Cimarron Co. $45,000. J. M. Page, highway engr.

Okla., Pawhuska—Made plans 3 span 210 ft. steel truss bridge on concrete piers and abutments, at Osage St., 11,400 lb. reinforcing steel, etc. $25,000. W. M. Clark, Pawhuska, engr.

Okla., Tulsa — Park Hill & Park Pl. Impvt. Assn., c/o Hughes Eng. Co., Cole Bldg., making preliminary plans 96 ft. steel bridge on concrete abutments, over Missouri, Kansas & Texas Ry. tracks, at Frisco Ave. $75,000.

Calif., Red Rock—Western Pacific R.R. Co., Mills Bldg., San Francisco, making plans replacing present wooden trestle with 375 ft. steel bridge, here, Lassen Co. H. M. Smitten, bridge engr. for owner.

Calif., San Jose—Made plans rein.-con. girder type bridge over Guadalupe Creek at Julian Ave., 4,880 cu.yd. excav., ninety-two 25 ft. wooden and forty-five 20 ft. concrete piles, 67 tons reinforcing steel, etc. W. Popp, city engr.

Calif., Santa Barbara — Supervs. Santa Barbara Co. take bids about May 4, bridge over Santa Ynez River. $95,000 or more. O. H. O'Neill, Santa Barbara, co. surv.

BIDS DESIRED

N. H., Epsom—May 1, by F. E. Everett, engr. State Hy. Dept., State House, Concord, 80 ft. thru plate girder bridge, here. $25,000.

New Jersey—May 11, by State Hy. Dept., Trenton, 2 rein.-con. bridges over middle and north branches of Forked River, on State Highway Route 4, at M. P. 37.9 and M. P. 38.5, Ocean Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 30.

Pa., Greensburg — May 4, by Comrs. Westmoreland Co., reconstructing bridge over Big Sewickley Creek, at Station of Waltz. W. A. Arter, co. controller.

North Carolina — May 5, by State Hy. Comn., Raleigh, rein.-con. bridges and culverts on State Project 609, Anson Co., $25,000; State Project 105-E, Beaufort Co., $35,100; State Project 128, Edgecombe Co., $25,000; State Project 235, Johnston Co., $45,900; and State Project 283, Wayne Co., $50,250. C. M. Upham, Raleigh, engr.

Ala., Gadsden — June 2, by State Hy. Dept., Montgomery, 12 span 1,325 ft. bridge over Coosa River, here. $350,000. Noted Feb. 19.

Illinois—May 11, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, three 34.5 ft. span rein.-con. girder bridges, Route 1, Sect. 38-V, Johnson Co.; two 30 ft. span rein.-con. slab bridges, Route 5, Sect. 20-B, Stephenson Co.; two 30 ft. girder spans and one substructure for two 160 ft. and one 50 ft. and two 40 ft. girder approach spans, Route 13, Sect. 13-B, Jackson Co.; 3 substructures for three 150 ft. steel spans, and 10 rein.-con. girder approach spans for eight 50 ft. and two 35 ft., Route 31, Sect. 18-B, Fulton Co.; seven 40 ft. span rein.-con. girder bridge, Route 32, Sect. 4-B. Moultrie Co.; one 28 ft. and three 26 ft. span rein.-con. slab bridges, also one 30 ft. and two 40 ft. spans, Route 33, Sect. 6-B, Jasper and Effingham Counties; two 40 ft. span rein.-con. girder bridges, Route 33, Sect. 7-D, Effingham Co.; one 30 ft. rein.-con. girder bridge, Route 39, Sect. 1-B, McLean Co.; one 14 ft. span rein.-con. slab bridge, and one rein.-con. culvert, also substructure for 100 ft. steel span, Route 39, Sect. 2-B, McLean Co.; steel superstructure for 100 ft. span, Route 39, Sect. 2-C, McLean Co.; 2 substructures for two 50 ft. steel and two rein.-con. girder spans, Route 39, Sect. 12-B, Champaign Co.; substructure for 106 ft. steel span, Route 2, Sect. 3-V, Jackson Co.; steel superstructure for two 160 ft. steel span Route 13, Sect. 13-C, Jackson Co.; superstructure for three 150 ft. steel spans, Route 31, Sect. 18-C, Fulton Co., F. T. Sheets, ch. engr.

Minnesota — June 3, by Joint Bridge Com., 1246 University Ave., St. Paul, constructing bridge over Mississippi River, connecting Ford Ave., St. Paul and 46th Ave., Minneapolis. C. M. Babcock, chn.; adv. E. N.-R. Apr. 30.

Tex., Alpine—See "Streets and Roads."

SUBWAY—NEW YORK, N. Y.

Following are lowest three bids opened by Bd. Transportation, 49 Lafayette St., April 3, for part of rapid transit railroad, Sect. 1, Route 78, along and under Central Park West from 68th to 77th Sts., (A) J. F. Cogan Co., Grand Central Terminal (awarded contract); (B) Rodgers & Hagerty, Inc., 70 East 45th St.; (C) G. J. Atwell Co., Inc., 347 Madison Ave. The unit bids are as follows:

	A	B	C
125,500 cu.yd. earth excavation above mean high water	$9.00	$7.50	$9.75
4,600 cu.yd. earth excavation for sewers, ducts and pipes	9.00	7.50	9.75
80,300 cu.yd. rock excavation	12.00	14.70	12.80
150 cu.yd. rock excavation for sewers, ducts and pipes	12.00	14.70	12.80
25 furnishing and setting trees	5.00	100.00	30.00
1,220 lin.ft. removal and restoration of C. P. stone wall fence	5.00	24.50	12.00
31,300 cu.yd. concrete masonry	20.00	22.00	20.00
97,100 sq.ft. rubbing to smooth finish the surface of concrete	.12	.12	.10
3,780 cu.yd. protective concrete masonry	20.00	22.00	20.00
500 cu.yd. rubble stone masonry	10.00	12.00	11.00
25 cu.yd. dry rubble masonry	10.00	10.00	9.00
230 cu.yd. brick masonry	40.00	30.00	40.00
200 sq.yd. vitrified brick lining for sewers	5.00	3.50	7.00
25 cu.yd. hollow terra cotta brick or tile	48.00	35.00	40.00
100 bbl. grout of portland cement	8.00	6.00	6.00
750 sq.yd. plastering on hollow tile	1.00	1.20	1.50
25 cu.yd. broken stone or gravel	4.75	6.00	4.00
15,650 sq.yd. waterproofing one ply	1.00	1.25	.85
19,520 sq.yd. waterproofing, three ply	3.00	2.50	2.20
100 sq.yd. waterproofing, six ply	6.00	4.00	4.00
100 sq.yd. waterproofing, dry ply	1.00	1.00	.55
300 cu.yd. waterproofing, brick in asphalt mastic 1 layer	40.00	45.00	48.00
1,700 cu.yd. waterproofing, brick in asphalt mastic 2 layer	35.00	40.00	48.00
575 lin.ft. 3-in. cast iron pipe and fittings	1.20	1.50	1.25
300 lin.ft. 4-in. cast iron pipe and fittings	1.65	1.75	1.75
1,350 lin.ft. 6-in. cast iron pipe and fittings	2.25	2.00	2.50
2,750 lin.ft. 8-in. cast iron pipe and fittings	4.00	3.00	3.60
20 lin.ft. 10-in. cast iron pipe and fittings	4.50	3.50	5.00
200 lin.ft. 4-in. standard galvanized steel pipe	1.70	1.75	1.70
100 lin.ft. 6-in. standard galvanized steel pipe	3.00	2.50	2.70
45 lin.ft. 8-in. standard galvanized steel pipe	4.00	3.00	4.50
50 lin.ft. 10-in. standard galvanized steel pipe	5.00	3.50	6.50
187,540 duct ft. tunnel ducts	.25	.30	.25
1,185 duct ft. 3-in. fibre conduits	.40	.50	.25
1,970 ton riveted steel	116.00	132.00	120.00
15 W. I. tree guards and gratings	10.00	30.00	70.00
4 ton architectural iron and steel (stairs, ladders, checkered plates, pipe railing, etc.)	400.00	300.00	330.00
450 sq.ft. sliding doors with steel panels	6.00	7.00	5.50
1 counterbalanced emergency exit covers	425.00	500.00	300.00
2,620 ton steel beams and shapes	116.00	132.00	120.00
310 ton steel rods and bars	120.00	110.00	100.00
17 ton miscellaneous iron castings	230.00	150.00	200.00

	A	B	C
1,730 lb. special wire forms	.20	.20	20
9,950 lin.ft. 1½-in. oak or ash hand rail	.75	1 25	40
2,000 sq.ft. horizontal steel grating for ventilation	5 00	3 00	5 00
4,000 sq.ft. vertical steel grating for ventilation	5 00	2 50	5 00
50 sq.ft. vault lights	3 50	4 00	8 50
7,050 sq.yd. sidewalk restored	3 00	2 75	2 00
9,460 sq.yd. roadways restored—asphalt	5 50	4 50	5 50
5,980 sq.yd. roadways restored—Belgian block	5 50	7 00	3 30
3,290 lin.ft. new 6-in. bluestone curb	3 00	2 00	1 70
100 lin.ft. new 8-in. granite curb	5 00	3 50	4 50
10 sq.yd. new sidewalk finish 3-in. thick	3 00	2 00	1 50
1,300 sq.yd. park surface restored	3 00	1 50	2 50
5,000 lin.ft. ¾-in. steel electric conduits	50	50	30
50 lin.ft. 1½-in. steel electric conduits	60	1 00	50
4,600 lin.ft. 1-in. steel electric conduits	50	75	40
450 cast iron outlet boxes	2 00	2 00	1 50
10 cast iron pull boxes	6 00	4 00	6 00
135 lin.ft. 6-in. cast iron pipes and fittings "extra heavy"	3 00	2 50	4 20
90 lin.ft. 3-in. cast iron pipes and fittings "extra heavy"	2 00	1 50	2 10
100 lin.ft. 8-in. cast iron pipes and fittings "extra heavy"	4 00	4 00	6 50
100 lin.ft. 12-in. vitrified pipe sewer	2 25	3 00	5 75
400 lin.ft. 20-in. vitrified pipe sewer	10 00	4 50	9 00
30 ton cast iron sewer pipe (straight pipe)	120 00	100 00	90 00
12 ton cast iron sewer pipe (special casting)	225 00	200 00	180 00
5,850 lin.ft. electric (underground trolley) railroad (single track)	10 00	15 00	20 00
100 lin.ft. water pipe 6-in.	1 50	2 00	1 00
1,700 lin.ft. water pipe 12-in.	4 00	3 00	2 20
2,000 lin.ft. water pipe, 30-in.	15 00	6 00	7 50
300 lin.ft. water pipe, 48-in.	20 00	10 00	15 00
5 service connection for water pipe	50 00	15 00	30 00
100 lin.ft. gas pipe, 6-in.	1 50	1 50	1 00
100 lin.ft. gas pipe, 8-in.	2 00	2 00	1 50
200 lin.ft. gas pipe, 10-in.	3 00	2 50	1 90
1,200 lin.ft. gas pipe, 20-in.	10 00	5 00	4 60
3,500 lin.ft. by-passing pipe, 10-in. steel	15 00	9 00	11 00
20 lin.ft. by-passing pipe, 16-in. steel	20 00	15 00	14 00
3,000 lin.ft. by-passing pipe, 20-in. steel	30 00	15 00	18 00
300 lin.ft. by-passing pipe, 16-in. steel on trestle or cable	20 00	15 00	16 00
200 lin.ft. cable suspension to support by-passing pipe 16-in. or under in dia.	15 00	10 00	11 00
5 service connection for gas pipes	50 00	20 00	30 00
350 ton new cast iron hub and spigot pipe, straight	100 00	70 00	65 00
150 ton new cast iron hub and spigot pipe, special castings	200 00	150 00	140 00
28,000 duct ft. electric ducts and conduits	40	50	25
100 lin.ft. steel pipe electric ducts and conduits, 2½-in.	1 50	1 00	70
500 lin.ft. steel pipe electric ducts and conduits, 3-in.	2 00	1 25	90
2,000 lin.ft. steel pipe electric ducts and conduits, 3½-in.	3 00	1 50	1 20
100 lin.ft. steel pipe electric ducts and conduits, 4-in.	3 50	1 75	1 50
5 service connections for electric ducts	50 00	50 00	50 00
10 service boxes on relocated duct lines	200 00	50 00	125 00
10 junction boxes on relocated duct lines	250 00	250 00	250 00
10 additional junction boxes on relocated duct lines	600 00	400 00	350 00
Extended totals	$4,199,876	$4,286,445	$4,302,423

Bridges (Continued)

Tex., Anson—See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

Tex., Sweetwater — May 8, by A. S. Mauzey, judge Nolan Co., concrete and pile trestle bridges and culverts on State Highway 70. $30,000. Former bids rejected. J. A. Focht, Sweetwater, co. engr. Noted Apr. 30.

Oklahoma—May 5, by State Hy. Dept., Oklahoma City, 3 span 140 ft. concrete bridge at Kingfisher, Kingfisher Co. $32,000, and 2 span 100 ft. concrete bridge at Weleetka, Okfuskee Co., $26,000. J. M. Page, highway engr.

Ore., Portland — May 26, by Comrs. Multnomah Co., Court House, constructing Ross Island Bridge, over Williamette River. G. Lindenthal, 250½ 3rd St., consult.-engr.; adv. E. N.-R. Apr. 30.

Calif., Los Angeles—May 11, by Bd. Pub. Wks., 24 span, 1,274 ft. concrete bridge at Macy St., 13,600 cu.yd. concrete, 1,450,000 lbs. reinforcing, etc. $500,000. M. Butler, City Hall, engr. Noted Oct. 16.

BIDS RECEIVED

O., Dayton — Dept. Pub. Serv., Island Park Bridge over The Great Miami River, at Helena St., from G. Wiley, Arcade Bldg., Dayton, $171,192. Engrs. est. $200,000. Noted Mar. 26.

Tex., Karnes City — See "Streets and Roads."

Tex., Palestine—See "Streets and Roads."

California—State Hy. Comn., Sacramento, for eight 54 ft. span bridge on concrete piers, 40 ft. roadway, two 6 ft. sidewalks, etc., over San Gabriel River, Los Angeles Co., from C. Steffgen, Spreckles Bldg., San Diego, $92,575. Noted Apr. 2.

CONTRACTS AWARDED

Pa., Phila.—Delaware River Bridge Joint Comn., 806 Widener Bldg., 720,000 lin.ft. steel reinforcing trusses, Contr. 21A, to Rivet Grip Steel Co., c/o Amer. Steel Eng. Co., 10 South 18th St., $144,000. Noted Apr. 23.

Pa., Phila. — Dept. Pub. Wks., Water Bureau, Contr. 746, to A. P. Smith Mfg. Co., Norman St., East Orange, N. J., $16,119; Contr. 749, to M. and J. B. McHugh, 892 North Markoe St., $5,625; Contr. 451, to Acme Machine Co., 316 North 17th St., $6,700. Noted Apr. 23.

Alabama—See "Streets and Roads."

Alabama—State Hy. Dept., Montgomery, several concrete and steel bridges on Montgomery-Birmingham Ry., Autauga and Montgomery Counties, to J. A. Pigford, Russel, Miss., $68,497. Engrs. est. $70,000.

Ia., Des Moines—See "Streets and Roads."

Ia., Nevada—Story Co., one 3 span plate girder and one 60 ft. pony truss bridges, also 6 box culverts, to H. T. Stillman, Ames, $37,940; grading 16,500 ft. Richland-Sherman Rd., to Allison & McNace, Boone, at $0.277 per cu.yd.

Ia., Primghar—O'Brien Co., 5 I-beam and 3 Pony Truss bridges, to H. Enterline, Rock Rapids, $23,305; 3,960 ft. 12- to 18-in. culvert pipe, to Sibley Cement Co., Sibley, $2,622; 41,772 cu.yd. excav., to C. W. McNamara, Sioux Falls, S. D., $9,733; 4,080 ft. 6 in. and 1,800 ft. 8 in. tile drain, to N. H. Nelson, Sanborn, $808; 16 box culverts and extensions, to Jensen Bros., Thompson, $3,106; 21 box culverts, to Borgie & Groth, Sioux Center, $15,650.

Kan., Eldorado—Butler Co., 7 concrete culverts on Rice Hill Rd., to A. M. Fisher, Douglas, $3,865, 8 culverts on DeGraff-Potwin Rd., to Lewis & Schide, Eldorado, $3,953, 22 culverts, to F. Grundeman & Sons, Netawaka, $7,705, 10 culverts on Latham Rd., to I. F. Sawyer, Leon, $3,911, 8 culverts on Leon-Atlanta Rd., to J. S. Kiser & Sons, Leon, $1,958; 1 bridge, to T. E. Luttgerding, Eldorado, $932.

Kan., Newton—A. Martin, city clk., five 40 ft. deck girder arches over Sand Creek, at Bway. Ave., 75,692 lb. reinforcing, etc., to Yancey Constr. Co., Abilene, for City and Harvey Co. $24,964. Noted Apr. 9.

Wyo., Big Piney — State Hy. Comn., Cheyenne, several 23 to 69 ft. span bridges, here, to Swenson-Willard Lumber Co., Laramie, $15,580. Engrs. est. $25,000. State to furnish treated timber. Noted Apr. 9.

Tex., Albany—See "Streets and Roads."

Tex., Henrietta — See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Tex., Rockport — See "Streets and Roads."

Tex., Sonora—See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

Tex., Sweetwater — Nolan Co., A. S. Mauzey, judge, 4 large concrete girder bridges on concrete pile trestle foundations, 172,359 lb. reinforcing, 2,764 ft. piling, etc., on State Highway 1, Federal Aid Project 444-D, to Hannah Constr. Co., Box 994, Waco, $43,379. Engrs. est. $51,466.

California — State Hy. Comn., Sacramento, 180 ft. rein.-con. bridge, 30 ft. over San Juan Creek, Orange Co., to Stevens Bros. & Haas, Lomita, $25,577. Noted Apr. 2.

Railways

PROPOSED WORK

Ohio—Cleveland Ry. Co., G. L. Radcliffe, genl. mgr., Hanna Bldg., Cleveland, plans renewing street car tracks, new rails, wood ties, concrete foundation and granite block surface, incl. 54,283 ft. single track on Detroit, Euclid, Lorain, Mayfield, Prospect and Woodland Aves., in Cleveland. $635,129. D. Clark, c/o owner, engr.

BIDS RECEIVED

California — Bd. Pub. Wks., San Francisco, track work and paving Ocean View line extension to municipal railway in San Francisco, for City and San Francisco Co., from Eaton & Smith, 715 Ocean Ave., San Francisco, $101,854.

CONTRACTS AWARDED

Ontario—Ontario Hydro Comn., A. Beck, chn., London, will double track sections of Windsor Electric Ry., in Windsor, by day labor under supervision of T. U. Fairlie, engr., 190 University Ave., Toronto. $50,000.

Ontario—Toronto Transportation Comn., Yonge and Front Sts., Toronto, will build 800 ft. double track electric street railway loop at Christie and Dupont Sts., in Toronto, by day labor. $40,000. D. W. Harvey, ch. engr.

Alberta—Canadian Pacific Ry., Windsor Sta., Montreal, Que., will build 25 mi. railroad between Kipp and Turin, here, by day labor. $1,000,000. J. M. R. Fairbairn, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

La., Plaquemine — Atchafalaya Basin Levee Dist. plans levee work from Manchac Point to Medora, Iberville Parish, 100,000 cu.yd. excav.

Calif., Ravendale—Red Rock Irrigation Dist. plans election $442,000 bonds for irrigation works, incl. storage dam, conduit canal system, etc. T. H. Means, 369 Pine St., San Francisco, engr.

Calif., Richmond—Making plans dredging inner harbor No. 2, 120,000 cu.yd. excav. E. A. Hoffman, city engr.

Ont., Toronto — Harbor Comrs. plan to expend $329,000, dredging work in harbor. J. R. Wainwright, Harbor Bldg., engr.

BIDS DESIRED

Conn., Hartford—May 10, by C. M. Dahill, secy. Bd. Contr. & Supply, 950 ft. rein.-con. conduit 7 x 7 ft., to form confined channel for Gully Brook. $30,000. R. N. Clark, city engr. Noted Apr. 23.

Neb., Columbus—May 6, by Oconee D. D., approximately 3 mi. drainage work, 122,388 cu.yd. excav., in Lost Creek. $31,000. F. Gottschalk, Columbus, engr. Noted Jan. 1.

British Columbia — May 5, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., dredging in Courtenay River, here.

CONTRACTS AWARDED

Miss., Cleveland — Clear Creek D. D., Bolivar Co., rejected bids Apr. 10, 210,025 cu.yd. excav., etc., in Ditch A, and will complete same with floating dredge already built on jobs; 11,600 cu.yd. excav., etc., in Ditch C, to G. S. Funk, Shelby, at $0.225 per cu.yd. Noted Mar. 26.

Calif., Los Angeles—Pacific Natl. Bank, excavation for 12 story and basement, 95 x 166 ft., brick and steel bank, 9th and Hill Sts., to Harvey Bros., 1631 South Soto St., at $0.72 per yd. Noted Apr. 16 under "Buildings—Commercial."

Streets and Roads

PROPOSED WORK

New Hampshire—State Hy. Dept., Concord, plans asphalt paving 19,982 sq.yd. Daniel Webster Highway, Federal Aid Project 219A, in Boscawen, Merrimack Co. $44,000. E. E. Everett, state engr., and F. W. Brown, div. engr., both c/o owner.

Mass., Beverly (Boston P. O.)—Bd. Aldermen plans improving Schier Rd. and Herrick St.; also widening Cabot St. $25,000. Engineer not selected.

Pa., Sayre—Sayre Boro takes bids in May, curbing, guttering and brick, rein.-con.

Streets and Roads (Continued)

or asphalt paving 29,000 sq.yd. various streets. H. C. Child, boro engr.

W. Va., Fayetteville—Fayette Co. election May 16, $91,000 bonds improving roads in Sewell Mountain Dist. G. H. Slems, Fayetteville, co. engr.

W. Va., Huntington — Cabell Co. plans election $300,000 bonds, improving 10 mi. roads Guyandotte Dist. J. M. Oliver, Huntington co. engr.

W. Va., Pineville — Wyoming Co. voted $121,000 bonds, hard-surfacing Pineville-McDowell Co. line Rd. I. E. Basham, Pineville, engr. Noted Mar. 19.

W. Va., Welch — Plans election $125,000 bonds, for street work and sewers in various streets. L. A. Osborn, Welch, engr.

N. C., Brevard—Plans grading, concrete or asphaltic concrete paving various streets. $90,000. T. M. Mitchell, Brevard, mayor.

N. C., Halifax—Bd. Comrs. Halifax Co., plans to issue $200,000 constructing hard-surface road from Tarboro to Halifax Co. line. H. P. Foxhall, Tarboro, secy. Co. Highway Comn. Noted Apr. 2.

Fla., Palm Beach — Election May 12, $444,000 bonds constructing Rd. 1; $223,000 bonds, Rd. 2, Pahokee to Belleglade; $80,000 bonds Rd. 6, Military Trail and Lake Worth; $150,000 bonds Rd. 3, Canal to Bacoms Pts., $93,000 Rd. 4, Belleglade to Hillsboro Canal Lock, and Rd. 5, Okeelanta to South Bay, all above in Special Road and Bridge Dist. 11. F. C. Fenno, clk.

Fla., Sanford—Seminole Co. plans election $30,000 bonds, constructing 1.85 mi. Leinhart, Bay and Lake Jessup Rd., $60,000 bonds 3 mi. Palm Springs Rd., $35,000 bonds 1.85 mi. Forest City South St. and Melonville Ave., $60,000 bonds 5 mi. Titusville St., $60,000 bonds 5 mi. Oviedo St., $72,000 bonds 6 mi. St. Gertrude Ave., $47,000 bonds 3.8 mi. Longwood-Wagner Sts., $58,000 bonds 4.7 mi. Howell Lake St., $37,000 bonds 3 mi. Brumley St., $27,000 bonds 2.3 mi. Monroe School, Old Monroe and Rand Sidney Sts., $33,000 bonds 2.75 mi. Cameron City St., $45,000 bonds 3.75 mi. Silver Lake-Lehman Sts., $120,000 bonds 10 mi. Longwood-Markham St., $72,000 bonds 5.9 mi. Chulnota-Geneva Sts., $42,000 bonds 3.5 mi. road through Geneva, $62,500 bonds 5 mi. portion of Oveido St., $38,000 bonds 3.1 mi. Sanford and Golf Course Sts., $31,500 bonds 2.5 mi. Orange Blvd., $38,000 bonds 3.2 mi. Sanford, Cemetery and Cameron Aves., $97,000 bonds 4.35 mi. Lake Mary Rd., $140,000 bonds 6.25 mi. Geneva St., $148,000 bonds 6.6 mi. Celery and Forest Sts., $81,000 bonds 3.6 mi. Goldenrod-Maitland Sts., $30,000 bonds 6.48 mi. Brevier-Paola Junction Sts., $30,000 bonds 1.35 mi. Paola and Markham Sts., $40,000 bonds 1.8 mi. Lake Geneva Rd., $105,000 bonds 4.2 mi. Osceola and Lake Mills Rds., $25,500 bonds 1.25 mi. Deep Pocket Rd., $40,500 bonds 1.88 mi. Longwood-Markham and Sanford Cemetery Sts., etc., $38,000 bonds 1.65 mi. Sanford Shore Dr. and Lake Monroe St., and $25,000 bonds 1 mi. Lake Charm Rd. V. E. Douglass, co. clk.

Fla., Wauchula—Hardee Co. election May 11, $255,000 bonds, roads and bridges on Rds. 15 and 16 and $35,000 bonds on 2 mi. Rd. 6-B.

Miss., Meridian—Plans extending pavement 4th St., $30,000; also paving various other streets, $50,000.

Miss., Ripley—Tippah Co. election May 12, $255,000 bonds for North and South Rds.

Miss., Water Valley—Yalobusha Co. election May 2, $365,000 bonds for roads in Dists. 2 and 3.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans improving 4 mi. Knoxville-Georgia Co. line Rd., Knox Co. J. G. Creveling, highway comr.

Tenn., Chattanooga—City and Hamilton Co. plan concrete surfacing highway from Chattanooga to Lookout Mountain. $100,000. E. G. Munell, Court House, co. engr. Noted Dec. 18.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring grading, curbing, sidewalks and vitr. brick paving, etc. 3,870 sq.yd. Ecton Rd., $35,500. E. A. Kemmler, Delaware Bldg., engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 2,662 ft. Hilltonia Ave. and Gault St., 26 ft., brick $53,797, asphalt $43,686; 6,439 ft. Nashoba and 18th Aves., 24 ft., brick $128,224, asphalt $106,496; 447 ft. Benkner St., 21 ft., brick $5,803, concrete $3,936; 386 ft. alley north Dodridge St., 16 ft., brick $2,761, concrete $2,491; 320 ft. alley north Patterson Ave., 15 ft., brick $2,030, concrete $1,816; 250 ft. alley north King Ave., 18 ft., brick $2,150, concrete $1,945; 1,311 ft. Mooberry St., 26 ft., brick or asphalt, $10,000. R. H. Simpson, city engr.

O., Steubenville—Plans repaving Franklin Ave., brick $51,404, asphalt $38,560. C. N. Teatt, Steubenville, city engr.

Ind., Upland—Plans concrete paving 1.5 mi. Anson, 2nd and Berry Sts., 25 ft. $35,000.

Ind., Vincennes—Knox Co. plans concrete paving 34,444 sq.yd. Freeman Rd., 18 ft., $82,153, 23,334 sq.yd. Kapps Rd., $53,661, both 18 ft.; grading and graveling Dutton Rd., 24 ft. $26,576. W. D. Hanlon, Vincennes, engr.

Michigan — State Hy. Dept., Lansing, plans concrete paving 21 mi. Project 113, B and E, Ionia Co. G. C. Dillman, Lansing, ch. engr.

Mich., Detroit — Making plans sheet asphalt paving 23,620 sq.yd. Six Mile Rd. $106,200, 5,600 sq.yd. Dexter Blvd. $25,080, 15,010 sq.yd. Conant Ave., Sect. 3 $67,500, 25,100 sq.yd. Conant Ave., Sect. 4 $112,500, 7,920 sq.yd. Plymouth Rd. Sect. 3, $35,500, and 32,050 sq.yd. McGraw Ave., Sect. 2 $144,000.

Mich., St. Johns — Clinton Co. plans graveling 10 mi. Assessment Dist. Rd. 18.

Wis., Appleton—E. L. Williams, city clk., rejected bids Apr. 1, paving, etc., 64,000 sq. yd. various streets. Will readvertise. R. M. Connelly, City Hall, engr. Noted Apr. 16.

Kan., Council Grove—Morris Co. making preliminary plans grading, bridging, etc. 15.5 mi. Southwest Trail, 28 ft. J. McKenzie, Court House, co. engr. Kansas Eng. Co., 1233 Webster St., Topeka, consult. engr.

Kan., Ottawa—Franklin Co. making preliminary plans grading, bridging, etc. 32 mi. various roads, 28 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, consult engr.

Tex., Boston—Bowie Co. making plans grading, bridging and gravel surfacing 7.2 mi. State Highway 5, Federal Aid Project 480-A, 16 ft. $74,700. F. E. Hess, Boston and Medical Arts Bldg., engrs.

Tex., Post — Garza Co. making plans hard-surfacing about 8 mi. road northwest of here. $150,000. J. M. Boren, Post, co. judge. Noted Apr. 9.

Tex., Waco — Voted $150,000 bonds, paving 7th St. V. G. Koch, city engr. Noted Apr. 2.

Okla., Lindsay — Making preliminary plans grading, curbing, brick or concrete surfacing 4 blocks Impvt. Dist. 1. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Okmulgee—Okmulgee Co. making preliminary plans grading, bridging, etc. 8.5 mi. Okmulgee-Morris Rd., 30 ft. $45,000. H. C. King, Okmulgee, engr.

Okla., Ponca City—Making preliminary plans grading, curbing, guttering and vertical fibre brick surfacing 14,800 sq.yd. South Ave. $65,000. E. A. Jones, Ponca City, engr.

Wash., Bucoda—City Council takes bids about May 30, curbing and concrete paving 3.4 mi. Main St., 20 and 40 ft. $33,000. Noted Apr. 16.

California—State Hy. Comn., Sacramento, plans paving Colton Ave. between west city limits of Redlands and bridge over Santa Ana River, San Bernardino Co. $200,000 or more. R. M. Morton, Sacramento, highway engr.

Calif., El Cerrito—Making plans 1.5 in. Warrenite on 2.5 in. asphaltic concrete paving approximately 500,000 sq.ft. various streets. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Martinez—Contra Costa Co. making plans new road from state highway at Tank Farm to termination of Kearney St. $45,000 or more. R. R. Arnold, Martinez, co. surv.

Calif., Marysville—Plans paving Browns Grade between end of 12th St. and city limits. To exceed $35,000. L. B. Crook, city engr.

Calif., Merced — Making plans concrete paving Q St. between 22nd and 23rd Sts., and Willite paving portions of J, L and M Sts., etc. To exceed $25,000. C. D. Martin, city engr.

Calif., Oakland—Making plans improving portions of streets in Beverly Terrace, 80,787 sq.ft. grading, 45,889 sq.ft. oil macadam paving, etc. W. W. Harmon, city engr.

Calif., Pacific Grove—Plans election $25,000 bonds paving streets around city parks. H. D. Severance, city engr.

Calif., Redding — Made plans grading, paving, etc., portions of North and Placer Sts., etc. To exceed $50,000. E. A. Rolison, city engr.

Calif., Richmond—Making plans curbing, sidewalks, guttering and 1.5 in. on 3.5 in. asphaltic concrete paving 10th St. between Lucas and Pennsylvania Sts.; 1.5 in. National on asphaltic concrete paving 90,000 sq.ft. Gerard Blvd. between Macdonald Ave. and Ohio St. To exceed $25,000. E. A. Hoffman, city engr.

Calif., San Bruno—Made plans grading, curbing, sidewalks, Willite asphaltic concrete paving, etc., Linden, Poplar, Elm Sts., etc. To exceed $25,000. G. E. Kneese, Court House, Redwood City, engr.

Calif., San Diego—Voted special tax, estimated to yield $100,000 for paving streets on about 20 school sites.

Calif., San Diego — Made plans curbing, grading, concrete and 1.5 in. asphaltic concrete surfacing, etc., 25,054 sq.yd. 19th and "B" Sts.; 5 in. concrete surfacing, etc., 45,283 sq.yd. 30th St. between "B" and National Sts.; 1.5 in. sheet asphalt surfacing, etc., 34,501 sq.yd. National Ave. between 31st and 41st Sts. F. A. Rhodes, city engr.

Calif., San Leandro—Making plans probably 2 in. Warrenite on 6 in. concrete repaving East 14th St. from San Leandro Creek to Durant Ave. $75,000. F. A. Nikirk, city engr.

Calif., Santa Rosa—Sonoma Co. making plans grading, timber bridging and paving (type undecided) Rd. Impvt. Dist. 3. To exceed $25,000. J. B. Piatt, Rosenberg Bldg., engr.

Calif., Signal Hill—Making plans grading, curbing and paving, etc., State St. $80,000 to $100,000; and Willow St. between east and west city limits, to exceed $25,000. G. A. Schwabland, city engr.

Calif., Ventura — Making plans paving various streets north of Main St. $250,000 or more. C. W. Pierce, city engr.

Ontario—Dept. Provincial Highways, 11e University Ave., Toronto, plans probably bituminous macadamizing 4 mi. highway from Jarvis westerly. $150,000. G. Hogarth, ch. engr.

Ontario—Dept. Provincial Highways, 11e University Ave., Toronto, plans 10 mi. gravel road from Sudbury to Frood Mine. $100,000. C. H. Fullerton, Parliament Bldgs., engr.

Ont., London—Suburban Highway Comn., County Bldg., plans concrete highway. $60,000.

Ont., North Bay — Plans grading and asphalt paving 19,000 sq.yd. McIntyre St. $100,000. F. G. Mackie, city engr.

Ont., St. Catharines — Plans curbing, guttering and sheet asphalt paving 6,000 sq.yd. Wolseley Ave., Albert, Monck and Water Sts. $30,000. B. F. Lamson, city engr.

Ont., Toronto—Plans curbing, guttering and sheet asphalt paving 6,600 sq.yd. Boulevard Dr. from Bathurst to Dufferin Sts. $388,917. R. C. Harris, city engr.

Ont., Toronto—Plans brick block paving 3,000 sq.yd. Glenmore Rd., $12,477; concrete sidewalks on 9,500 ft. Brookside Dr., Craven and Morton Rds., Queens St., Duplex, Welland and McFarland Aves., $10,000; extending lane between Manning Ave. and Clinton St., $5,400. R. C. Harris, city engr.

BIDS DESIRED

New Hampshire — May 1, by F. E. Everett, comr. State Hy. Dept., Concord, grading and 7 in. rein.-con. paving, etc., 19,917 sq.yd. "East Side Trunk Line" north of Berlin to Milan town line, Coos Co. $65,000. F. F. Hargraves, div. engr.

Massachusetts — May 5, by Dept. Pub. Wks., Div. Highways, State House, Boston, concrete and bituminous macadam paving 23,033 ft. highway in Stoughton and Canton, $100,000; concrete paving 24,121 ft. in Somerset $125,000, and 2,400 ft. in Swampscott, $25,000; bituminous concrete paving 5,638 ft. in Harwich, $40,000; bituminous macadam paving 1,900 ft. in Northboro, $10,000, 5,242 ft. in Hingham and Cohasset, $25,000, also 1,700 ft. in Freetown, $10,000. W. F. Willians, comr.

R. I., East Providence (br. Providence)—May 7, by Metropolitan Park Comn., State House, Providence, bituminous macadam paving 2.48 mi. Barrington Parkway, 18 ft., here; adv. E. N.-R. Apr. 30.

R. I., Providence—May 4, by Pub. Wks. Dept., asphalt paving sections of Weybosset, Dorrence and Westminster Sts. $25,000. W. F. Slade, comr. Noted Mar. 5.

N. Y., Auburn—May 12, by J. P. Jaeckel, city mgr., City Hall, improving Park Ave., Fort, Fulton, Market, Genesee and Washington Sts. M. F. Dullea, city engr.; adv. E. N.-R. Apr. 30.

N. Y., Long Island City—May 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repaving Beach 19th St., Old South Rd., Lincoln and Van Wyck Aves.; paving Hinman and 125th Sts.; regrading 97th St.; grading Kew Gardens Rd., 53rd and 91st Aves., Moore, 96th and 125th Sts.

N. Y., Long Island City—May 6, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., restoring sidewalks and sheet asphalt paving Rockaway Beach Blvd. from Beach 116th to 122nd Sts.; and granite block paving Rockaway Beach Blvd. from Beach 75th to 110th Sts.

N. Y., New York—May 6, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block repaving Dover and Frankfort Sts., 2nd and 5th Aves., West 12th St. from Greenwich to West Sts., and West 12th St. from 9th to 10th Aves.; grading, regrading, recurbing, etc., Riverside Dr.

N. Y., Poughkeepsie—May 21, by F. S. Greene, supt. Pub. Wks., 55 Lancaster St.,

Streets and Roads (Continued)

Albany, east approach and east and west anchorages of bridge across Hudson River, here, Dutches Co. known as Contr. 2 Mid-Hudson Bridge; adv. E. N.-R. Apr. 30.

N. Y., St. George — May 7, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam paving and repaving Clove Rd.; concrete curbing, guttering, sidewalks, etc., on Old Town Rd., Giffords Lane, Warren St., North Burgher, Richmond and Forest Aves.

N. J., Bridgeton—May 12, by E. C. Ott, chn. Pub. Rds. Com., constructing Sect. 3, Bridgeton-Port Norris Rd., Lawrence Twp., Cumberland Co. W. M. Sharp, Court House, co. engr.; adv. E. N.-R. Apr. 30.

Pa., Phila.—May 4, Bureau of Highways, Dept. Pub. Wks., Schedule A, grading 44 streets; Schedule B, asphalt paving 16 streets; Schedule C, asphalt repaving 1 street; Schedule D, redressed granite block repaving 9 streets; Schedule E, reconstructing sewer in 1 street; Schedule F, concrete dam and section of bathing lake, at League Island Park. G. H. Biles, dir. Pub. Wks.

Delaware—May 20, by State Hy. Dept., Dover, constructing state highway Contr. CN 22, Contr. CK 25, Contr. CS 39, Contr. CS 41, Contr. SC 30B; adv. E. N.-R. Apr. 30.

Maryland—May 12, by State Rds. Comn., Baltimore, paving 9 sections highway in Baltimore, Prince George, St. Marys, Frederick, Howard, Montgomery, Talbot and Wicomico Counties; adv. E. N.-R. Apr. 30.

Md., Baltimore—May 13, by Bd. Awards, sheet asphalt paving 8,530 sq.yd. streets in Contr. 281-OC; and concrete paving 13,160 sq.yd. streets in Contr. 280-NA. S. C. Rowland, 214 East Lexington St., acting chn. paving com.

W. Va., Dunbar—May 4, by J. A. Shaver, mayor, grading, curbing and paving 16,000 sq.yd. various streets. J. R. Conway, city clk.

W., Va., Elkins—May 5, by H. C. Kesling, clk Randolph Co., grading and bituminous macadam on present stone surfacing Laurel Mountain Rd., and bituminous macadam surfacing Scotts Ford Rd. L. B. Robinson, Elkins, engr.

W. Va., Huntington—May 8, by Bd. City Comrs., grading, curbing and paving Jackson Ave. from 16th to 17th Sts., and 6th St. from 9th to 10th Aves. A. B. Maupin, city engr.

Fla., St. Petersburg—May 18, by S. S. Martin, dir. Finance, brick or asphalt block paving, etc., various streets; adv. E. N.-R. Apr. 30.

Miss., Gulfport—May 7, by Bd. Supervs. Harrison Co., grading, curbing, bridging and concrete surfacing, etc., 32,586 sq.yd. Gulfport-Hattiesburg Rd., Federal Aid Project 150. H. C. Dietzer, Jackson, engr. Noted Mar. 19.

Miss., Winona—May 5, by J. Q. Staples, mayor, and Bd. Aldermen, paving City Alley, Union, Church, Carrolton, College, Jones, Webster, and Magnolia Sts., Railroad, Hampton and Sterling Aves. M. L. Culley, Jackson, engr.

Louisiana—May 12, by State Hy. Dept., Reymond Bldg., Baton Rouge, graved surfacing 5.25 mi. Sect. C, and constructing bridge, etc., on Sect. D, State Project 351, St. Francisville-Jackson Highway; also constructing 8.96 mi. State Project 365 A, Homer-Farmersville Highway, Claiborne Parish. W. B. Robert, ch. engr.

Louisiana—May 14, by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 3.46 mi. State Project 420, Ruston-Chatham Highway, Lincoln Parish; 10.68 mi. State Project 467 A, Minden-Lewisville Highway, Webtser Parish; 15.95 mi. Natchitoches-Boyce Highway, Sects. B and C, Natchitoches Parish. Bids also at same time for furnishing gravel for above. W. B. Roberts, ch. engr.

La., Baton Rouge — May 5, by Comn. Council, grading and Warrenite bitulithic, sheet asphalt or asphaltic concrete paving 43 streets, 40,000 sq.yd. excav., etc. J. W. Billingsley, Baton Rouge, consult. engr.

O., Akron—May 4, by W. F. Peters, dir. Pub. Serv., grading, curbing, laying sidewalks and vitr. brick paving 4,000 sq.yd. Moon St. and 2,160 sq.yd. Clearview Ave.; grading, laying sidewalks and cindering 300 cu.yd. 6th Ave.; repairs to bridge, and constructing retaining wall on Stuber St. $76,300. E. A. Kemmler, Delaware Bldg., engr.

O., Canton—May 15, by Comrs. Stark Co., macadam or asphalt paving 2.5 mi. Canton-Canal Fulton Rd., 16 ft. $50,000-$60,000, 2.5 mi. Hills and Dales Rd., 14 ft., $60,000; brick paving 3.25 mi. Elton-Navarre Rd., 16 ft., $75,000; macadam paving 1.4 mi. Swamp Rd., Sect. B, 14 ft., $40,000. A. M. Wise, Court House, engr.

O., Garfield Heights (Cleveland P. O.)—May 4, by City, paving Edgepark Ave., Garfield Parkway, and East 114th St. To exceed $25,000. R. F. Munz, Town Hall, Cleveland, engr. Noted Apr. 9.

O., Steubenville—May 1, Comrs. Jefferson Co., waterbound bituminous macadam paving 10.1 mi. Toronto-Island Creek Rd., and Smithfield-Hopedale Rd. $68,500. V. Penn, Steubenville, engr.

Indiana—May 5, by C. Gray, engr. State Hy. Dept., Indianapolis, concrete paving 29,124 sq.yd. Federal Aid Rd. 91, Lake Co. Noted Apr. 23.

Ind., Huntington—May 11, by City, c/o M. Day, city clk., improving 25,000 sq.yd. various streets. L. Wagnor, mayor; adv. E. N.-R. Apr. 30.

Ind., Valparaiso — May 5, by F. R. McNiece, engr., Valparaiso, grading and graveling 2.02 mi. Biggart Rd., $25,350, 2.84 mi. McCord Rd. $25,915, and 2.06 mi. Nicholson Rd. $25,940, all foregoing 24 ft. wide; concrete paving 24,216 sq.yd. Scofield Rd., $68,500. Noted Apr. 23.

Illinois—May 6, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, surfacing 0.765 mi. Route 46, Sect. 464-W, 20 ft., Cook Co., F. T. Sheets, highway engr.; bids also at same time by City Clerk, widening above road, Consoer, Older & Quinlan, Inc., 140 South Dearborn St., Chicago, engrs.

Illinois—May 11, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, Portland cement, concrete, bituminous filled brick or bituminous concrete with or without binder course surfacing 8.94 mi Route 3, Sect. 43, 9 and 18 ft., Schuyler Co., 0.25 mi. Route 5, Sect. 15-x, 18 ft., Winnebago Co., 0.46 mi. Route 6, Sect. 7-A, 9 ft., De Kalb Co., 3.35 mi. Route 9, Sect. 36, 18 ft., McDonough Co., 4.12 mi. Route 9, Sect. 39, 18 ft., Fulton Co., and gravel surfacing 5.12 mi. same road, 5.33 mi. Route 22, Sect. 11, 20 ft., Cook Co., 7.8 mi. Route 22, Sect. 19, 18 ft., and 1.22 mi. Route 22, Sect. 21, 20 ft., both Lake Co., 0.31 mi. Route 22, Sect. G-2, 10 ft., and 0.81 mi. Route 22, Sect. 14-W, 9 ft., both Will Co., 7.06 mi. Route 23, Sect. 27, 9 ft., De Kalb Co., 1.56 mi. Route 27, Sect. 18, 18 ft., Ogle Co., 4.97 mi. Route 31, Sect. 16, 18 ft., Fulton Co., 7.23 mi. Route 33, Sect. 3, 18 ft., Jasper Co., 8.28 mi. Route 33, Sect. 6, 18 ft., Jasper and Effingham Counties, 5.76 mi. Route 33, Sect. 7, 18 ft., Effingham Co., 3.19 mi. Route 39, Sect. 2, and 4.87 mi. Route 39, Sect. 3, and 5.54 mi. Route 39, Sect. 4, all 18 ft., McLean Co., 7.18 mi. Route 45, Sect. 1, 18 ft., La Salle Co.; grading 9,465 cu.yd. Route 8, Sect. 20-A, Iroquois Co., 44,030 cu. yd. Route 24, Sect. 12-A, Sangamon Co., 38,765 cu.yd. Route 39, Sect. 1, McLean Co., and 51,920 cu.yd. Route 39, Sect. 2-A, McLean Co. F. T. Sheets, ch. engr.

Ill., Riverside — May 4, by Bd. Local Impvts., Town Hall, grading, concrete surfacing, etc. 4,050 sq.yd. Garland Ave. and Park Pl. $80,000. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Wis., South Milwaukee—May 4, by R. J. Schauer, city clk., gradin gand sheet asphalt, vibrolithic or concrete paving 7,200 sq.yd. 10th and Marquette Aves. To exceed $25,000.

Ia., Ackley—May 6, surfacing 38,000 sq. yd. various streets. Currie Eng. Co., Webster City, engrs. Noted Feb. 19.

Ia., Des Moines—May 7, by City Clerk, sheet asphalt, asphaltic concrete, bitulithic asphalt, vibrolithic, concrete or brick surfacing 8,850 sq.yd. Woodland St., 2,041 sq. yd. 59th St.; resurfacing 2,767 sq.yd. Maple St.; curbing 2,607 ft. 3rd St., 2,607 ft. 4th St. and 1,412 ft. 59th St. K. C. Kastberg, City Hall, engr.

Ia., Jefferson—May 5 by Aud. Green Co., grading, etc. 10.2 mi. primary road, 84,639 cu.yd. excav., 91,600 cu.yd. overhaul, etc. J. L. Lindsey, Court House, engr.

Minn., Duluth—May 5, by F. W. Borgen, aud. St. Louis Co., clearing, grubbing, grading, etc., 3.1 mi. Chisholm Rd. Job 7-2502, $25,000; and 1.8 mi. Sturgeon Lake Rd. north of here, $30,000, both 30 ft. wide. R. W. Acton, Court House, co. engr.

Minn., Moorhead—May 4, by R. G. Price, city clk., paving 8 blocks 7th St. S. between 1st and 9th Aves. $35,000. Noted Mar. 26.

Minn., St. Paul—May 4, by G. J. Ries, aud. Ramsey Co., improving 3 mi. Co. Project 2552 between west end of Prescott Bridge and Trunk Highway 3, 34,907 sq.yd. one course concrete paving, 17,064 sq.yd. earth shoulders, 15,679 lin.ft. 4 and 2 in. integral curb, etc., $100,000; also grading and gravel surfacing 1 mi. Co. Project 2554 between South Robert St. and Trunk Highway 1, 49,288 cu.yd. earth and 400 cu.yd. rock excav., 178,060 cu.yd. over haul, etc., $25,000. P. N. Coates, 900 Guardian Life Bldg., St. Paul, engr. Noted Apr. 16.

Minn., Two Harbors—May 4, grading and paving about 7 blocks Maple St. $30,000. E. Carlson, city clk.

Minn., Worthington — May 8, by C. J. Kall, aud. Nobles Co., gravel surfacing 5 mi. Job 2501, State Rd. 11, 5 mi. Job 2503, State Rd. 12, 12 mi. Job 2504, State Rd. 14, 9 mi. Job 2505, State Rd. 17, and 6 mi. Job 2506, State Rd. 15. $40,000. E. Keeler, Worthington, engr.

Tex., Alpine—May 8 (extended date), by A. L. White, engr. Brewster Co., grading and bridging 5.13 mi. State Highway 3, Federal Aid Project 378-E. $49,084. Noted Apr. 16.

Tex., Anson—Jones Co. taking bids grading, bridging, etc., 15.27 mi. State Highway 30, Federal Aid Project 477-C. $73,000. J. W. Puckett, Navasota, engr. Noted Jan. 22.

Tex., Brownsville—Taking bids surfacing 20 blocks various streets. $100,000. A. B. Cloe, mayor.

Tex., El Paso—May 12, by E. B. McClintock, judge El Paso Co., grading and surfacing with extensions to present concrete and block base with 1 or 1½ in. bituminous topping State Highway 1, Federal Aid Project 439-E. $403,740 incl 10% for excavation. Former bids rejected. F. E. Wilson, El Paso, co. engr. Noted Apr. 16.

Tex., Liberty—May 12, by C. R. Wilson, judge Liberty Co., Bates type concrete on sand and gravel surfacing 1.86 mi. State Highway 3, Federal Aid Project 352-B, $60,000, 7.8 mi. Sect. C, same road $225,000, 6.8 mi. Sect. A same road (base already constructed), $210,000, and 6 and 8 in. shell surfacing 6 mi. Sect. D same road, $25,500. W. C. Youngs, Dayton, co. engr. Noted Dec. 4.

Tex., Sweetwater — May 8 (extended date), by A. S. Mauzey, judge Nolan Co., grading, curbing and bituminous on gravel sledge and crushed rock surfacing 7.61 mi. State Highway 70, State Aid Project 534-A, Unit 1. $116,923. J. A. Focht, Sweetwater, co. engr. Noted Apr. 16.

Tex., Sweetwater—May 9, by Nolan Co., grading, bridging and bituminous paving 7.6 mi. Federal Aid Project 534-A, 18 ft. $140,000. J. A. Focht, Sweetwater, engr.

Oklahoma—May 5, by State Hy. Dept., Oklahoma City. (**F. A. P. means Federal Aid Project, S. A. P. means State Aid Project**), grading and concrete surfacing 84,768 sq.yd. Enid-Garber Rd., F. A. P. 179, Garfield Co. $240,000, 21,120 sq.yd. Billings-Marland Rd., F. A. P. 125-B, Noble Co. $40,000, 21,120 sq.yd. road east of Marland, F. A. P. 210-A, Noble Co. $53,000, 10,560 sq.yd. Shawnee-Tecumseh Rd., S. A. P. 77-A, Pottawatomie Co. $29,000; grading and gravel surfacing 42,960 sq.yd. Stigler Rd., F. A. P. 73-B, Haskell Co. $26,000, 63,680 sq.yd. Blanchard Rd., S. A. P. 97, McLain Co. $72,000; vertical fibre brick surfacing 54,468 sq.yd. Edmond Rd., F. A. P. 130-B, Oklahoma Co., $212,000; concrete surfacing 11,887 mi. Ponca City-Tonkawa Rd., S. A. P. 111, Kay Co., $28,000; grading, etc., 6 mi. Jennings Rd., F. A. P. 108, Pawnee Co. $39,000, and 9 mi. Pryor-Vinta Rd., S. A. P. 158, Mayes Co., $118,000. J. M. Page, highway engr.

Oklahoma—May 12, by State Hy. Comn., Oklahoma City, grading, concrete paving, etc., 10.14 mi. Federal Aid Project 130, Logan Co., 18 ft. $291,000. J. M. Page, highway engr.

Idaho — May 8, by Commissioner Pub. Wks., at Court House, Paris, grading, crushed rock or gravel surfacing 14,337 cu. yd. Old Oregon Trail and Bear Lake Highway, Federal Aid Projects 96-A and 97-A, Bear Lake Co. P. B. Wilson, Sonnenkalb Bldg., Pocatello, dist. engr.

Washington—May 12, by State Hy. Dept., Olympia, grading and gravel surfacing, etc., 6 mi. State Rd. 10, Douglas Co.; 10 mi. Olympia Highway, State Rd. 9, Grays Harbor and Jefferson Counties; 9 mi. State Rd. 3, Inland Empire Hy. between Cle Elumn and Teanway River and 9 mi. Inland Empire Highway between Dry Creek and Ellensburg, Kittitas Co.; 5 mi. State Rd. 4 between Detillion Bridge south, Lincoln Co. J. W. Hoover, Olympia, highway engr.

California—May 11, by State Hy. Comn., Sacramento, grading and crushed gravel or stone surfacing 5.8 mi. highway between Camino and point 2 mi. east of Sportsman Hall, El Dorado Co.; also widening with concrete shoulders and asphaltic concrete surfacing 8.2 mi. highway between Beardsley and Canaland Lerdo, Kern Co. R. M. Morton, highway engr.

Calif., Colusa — May 5, by Supervs. Colusa Co., improving highway between Colusa Bridge and Butte Creek School, 1,100 cu.yd. gravel, furnished by owner, and 3,300 cu.yd., furnished by contractor in place. J. M. Felknor, co. surv. Noted Feb. 9.

Calif., Compton—May 5, by City Trustees, improving Lee and portions of other streets, 37,330 sq.ft. grading, 12,240 sq.ft. sidewalks, 2,540 ft. curbing, 37,330 sq.ft. 5 in. concrete paving; etc.; also Wilmington St., 60,570 sq.ft. grading, 2,200 sq.ft. sidewalks, 478 ft. curbing, 60,570 sq.ft. 5 in. concrete paving, etc. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Compton — City Trustees taking bids improving Compton Ave. and Kemp St., 34,675 lin.ft. curbing, 170,570 sq.ft. sidewalks, 52,295 sq.ft. 5 in. and 3,140 ft. 8

Streets and Roads (Continued)

in. guttering, 284,550 sq.ft. grading, 71,770 sq.ft. 5 in. concrete paving, etc. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Huntington Park—May 5, by City Trustees, 6 in. concrete paving 107,239 sq. ft. California Ave. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Monterey — City Council taking bids 5 in. macadam paving, etc., 400,000 sq. ft. Oak, Lily, Newton Sts., etc. To exceed $80,000. H. D. Severance, city engr.

Calif., Salinas—City Trustees taking bids grading, concrete curbing, 5 in. concrete paving portions of Pajaro St.; and grading, concrete curbing, guttering, removing present waterbound macadam and placing 2.5 in asphaltic concrete paving portions Palmetto St. H. Cozens, city engr. Noted Apr. 9.

Calif., San Diego—May 11, by A. H. Wright, city clk., concrete curbing, guttering, sidewalks and 1.5 in. asphaltic concrete on 2.5 in. bituminous paving 220,817 sq.ft. 20th St. F. A. Rhodes, city engr.

Calif., Turlock — City Trustees taking bids improving 3rd, 5th and C Sts., 190,000 sq.ft. grading, 155,000 sq.ft. 1.5 in. Warrenite on 3 in. asphaltic concrete paving, 35,000 sq.ft. concrete guttering, etc. H. Hall, city engr. Noted Feb. 19.

Ont., Arnprior—G. D. Biggs, Reeve Renfrew Co. Council, taking bids waterbound macadamizing 1.45 mi. road in McNab, 3 mi. in Horton, 3 mi. in Admaston, 2.8 mi. in Bromley, 1.5 mi. in Ross, 4.35 mi. in Westmeath, 1.18 mi. in Pembroke, 1 mi. in Stafford, 1 mi. in Wilberforce, and 3 mi. in Alice Twps. $180,222.

Ont., Kingston—May 1, by A. H. Muir, engr. Suburban Roads Comn., 58,800 gal. road oil on roads. $20,000. R. H. Fair, Court House, engr.

Ont., New Toronto—May 2, by W. H. C. Millard, town clk., sheet asphalt or bitulithic paving 4,000 sq.yd. 5th St. $25,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs. Noted Apr. 9.

Ont., Sandwich—Essex Co., County Bldg., wants prices materials for concrete paving highways. $100,000. W. H. Knister, County Bldg., engr.

BIDS RECEIVED

Mass., Boston — Dept. Pub. Wks., improving various streets in Brighton, Roxbury, West Roxbury and Dorchester, from H. F. Malley, 174 Hillside Ave., West Roxbury, sheet asphalt $43,294; from S. J. Tomasello, 11 Cushing Terrace, Dorchester, bitulithic $41,557. Noted Apr. 16.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, Apr. 22, grading, curbing and flagging West 6th St., from W. J. McHale Contg. Co., 1250 Jefferson Ave., $2,557, 7th Ave., from Grimm Contg. Co., 170 McKinley Ave., $744, 81st St. from Galco Contg. Co., 745 Dean St., $5,101; asphalt paving 36th St., from Borough Asphalt Co., 1301 Metropolitan Ave., $9,041, 80th and 81st Sts., from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $7,358 and $8,623 respectively. Noted Apr. 16.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 27, from Sicilian Asphalt Paving Co., 41 Park Row, New York City, repairing sheet asphalt pavements in 1st and 2nd Wards, $18,025; from Cleveland Trinidad Asphalt Paving Co., Flushing, sheet asphalt paving 92nd St. $20,798, grading, curbing and sidewalks on 95th St. $36,605, 99th St. $19,295; from Welsh Bros. Contg. Co., 32 Queens St., Astoria, regrading, recurbing and reflagging Ely Ave. $41,313, grading, curbing and sidewalks on Roosevelt Ave. $27,994, 102nd St. $10,480; from Uvalde Asphalt Paving Co., 1 Bway., New York City, grading, curbing and sidewalks on 112th St. $20,426, 109th St. $14,885. Noted Apr. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Apr. 27, from W. J. Fitzgerald, 547 West 45th St., sheet asphalt repaving 37th St. $18,748, 47th St. $28,410; from Brusstar Constr. Co., Harlem River and 150th St., West 170th St. $47,513; from Uvalde Asphalt Paving Co., 1 Bway., 55th St. $27,711. Noted Apr. 23.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 21, bituminous macadam paving Oakland Ave. and Prospect St., from Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $13,523 and $24,699 respectively; within franchise area of Staten Island Midland Ry., Richmond Rd., etc. from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $36,378. Noted Apr. 16.

New Jersey—State Hy. Dept., Trenton, concrete paving, etc., 29,595 sq.yd. Route 5, Sect. 15 A, Union and Essex Counties, from P. Camillo & Co., Westfield, $242,508; 47,010 sq.yd. Route 4, Sect. 29, Ocean Co., from Union Paving Co., 30th and Locust Sts., Phila., Pa., $181,529. Noted Apr. 9.

Md., Baltimore—Bd. Awards, concreting footways, Contr. 84, from Arundel Constr. Co., Knickerbocker Bldg., $28,494.

Md., Baltimore — Bd. Awards, asphalt paving 14,080 sq.yd. Contr. 277 OCOA, from P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $63,635. Noted Apr. 16.

O., Cleveland Heights (Warrensville P. O.)—City, from Thorpe Constr. Co., 3280 Scranton Rd., Cleveland, stone curbing, 4 in. drain tile guttering and sheet asphalt paving Noble Shire Rd. $7,128, Quilliams Rd. $18,384, Randolph Rd. $31,950, Vinshire Rd. $9,394, Ardmore Dist. $127,795, Allston Rd. $18,357, Ardoon Rd. $4,260, Clarence Rd. $9,220, Glenwood Rd. $18,733, Medford Rd. $12,314, Montevista Rd. $25,303; from E. Gedney, 905 Parkway Dr., Cleveland, Superior Rd. $11,948, Antisdale Rd. $35,007; from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, Euclid Heights Blvd. $15,033. Noted Mar. 26.

Ind., Terre Haute — Vigo Co., concrete paving 2¼ mi. Myers Rd., 23 ft., from Foulkes Constr. Co., 750½ Ohio St., $79,950.

Michigan — State Hy. Dept., Lansing, graveling 3.75 mi. road, Shiawassee Co., from Holthauzen & Richardson, New Haven, $34,164; concrete paving 1 mi. road, Shiawassee Co., from A. J. Rhemus, Bay City, $33,737.

Michigan — State Hy. Dept., Lansing, graveling 6.058 mi. Assessment Dist. Rd. 439, Kent, Ottawa and Allegan Counties, from O. Kleet, Hartford, $47,804.

Mich., Detroit — From Detroit Asphalt Paving Co., 909 Free Press Bldg., grading and sheet asphalt paving 14,950 sq.yd. Nottingham Ave. $67,561, 23,910 sq.yd. Six Mile Rd. $101,565, 11,450 sq.yd. Jane Ave. $52,462; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 9,750 sq.yd. Riopelle Ave. $43,156, 13,970 sq.yd. State Fair Ave. $60,441; from C. L. Lincoln, 8074 East Canfield Ave., 2,870 sq.yd. Smart Ave. $13,091; from Detroit Dept. Pub. Wks., 2,970 sq.yd. Dayton St. $13,861.

Tex., Karnes City—O. N. Powell, engr. Karnes Co., Apr. 17, grading and bridging 9 mi. Rd. Dist. 3, 18 ft., 88,236 lb. reinforcing, 37,043 ft. treated and 1,278 ft. untreated timber, etc., from L. E. Sanders, San Antonio, $30,904. Engrs. est. $30,000. Noted Apr. 2.

Tex., Palestine—Anderson Co., grading, clearing, grubbing, bridging and concrete surfacing 10.75 mi. State Highway 43, Federal Aid Project 403, 187,860 lb. reinforcing, etc., from Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $102,329, engrs. est. $122,800; 9.75 mi. same road, Sect. C, 129,018 lb. reinforcing, etc., from J. W. Goodrum, Seguin, $75,632, engrs. est. $87,042. Noted Apr. 9.

California—State Hy. Comn., Sacramento, grading 140,000 cu.yd. Joint Highway Dist. 2, San Luis Obispo and Santa Barbara Counties, from C. W. Wimmer, Solvang, $67,302. Noted Apr. 2.

Calif., Chico — City Trustees improving various streets north of 5th St., east of Main St., etc., 373,000 sq.ft. 5 in. asphaltic concrete paving, 9,000 sq.ft. cement sidewalks, 16,000 sq.ft. concrete gutters, 17,000 ft. 5 in. concrete alley, etc., from Chico Contg. Co., Chico, approximately $85,200. Noted Apr. 2.

CONTRACTS AWARDED

Massachusetts — Dept. Pub. Wks., State House, Boston, concrete paving 8,100 ft. highway in Agawam, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $81,266, 4,073 ft. highway in Andover, to J. W. O'Connell, Tremont Bldg., Boston $47,420, 6,183 ft. highway in Brookfield, to B. Perini & Sons Inc., Ashland, $97,527; bituminous macadam paving 9,414 ft. in Paxton, to R. H. Newell & Son, Uxbridge, $71,066. Noted Apr. 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, sheet asphalt paving Charlotte Pl. $10,490, Troutman St. $24,160, 101st St. $10,015, curbing, etc., 78th St. $39,668; to Cleveland Trinidad Paving Co., Flushing, sheet asphalt repaving Flushing and Jamaica Sts., $79,465; to Highway Impvt. & Repair Co., 50 Church St New York City, sheet asphalt paving 91st St. $65,020, Woodhaven Ave. $12,700; to C. Kurth, 9519 126th St., Richmond Hill, grading, curbing, sidewalks, etc. on Nurge St. $3,270. Noted Apr. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro, granite block repaving Park (4th) Ave., to P. Cramer, 154 East 150th St. $5,980; 11th Ave., to W. J. Fitzgerald, 547 East 45th St., $479,760. Noted Apr. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block repaving 1st Ave., to J. Meehan & Son, 74 Cortlandt St., $227,525; asphalt block repaving 177th St., to Burnside Contg. Co., 270 Burnside Ave., $17,140. Noted Apr. 16.

N. Y., Rochester — Bd. Contract & Supply, asphalt repairs for 1925, to Whitmore, Rauber & Vicinus, 279 South Ave., $89,200.

Maryland — State Roads Comn., Baltimore, to Amer. Paving & Contg. Co., Montebello Ave., Baltimore, sheet asphalt paving 0.16 mi. Contr. BC-50, Baltimore Co., $18,807, 0.63 mi. Contr. BC-48, Baltimore Co., $57,339, 1.47 mi. Contr. BC-49, Baltimore Co., $61,055; to Slacum, Brohawn & Woolford, Cambridge, concrete paving 2.63 mi. Contr. K-28, Kent Co., $51,805, 1.25 mi. Contr. T-21, Talbot Co., $29,218, to Gosnell, Russell & Co., Frederick, 2.43 mi. Contr. B-71, Baltimore Co., $49,337, 2 mi. Contr. F-69, Frederick Co., $71,995, to H. D. Campbell & Sons Co., Towson, 2 mi. Contr. B-68, Baltimore Co., $71,462, 1.5 mi. Contr. B-1A, Baltimore Co., $15,264; to Thomas, Bennett & Hunter, Westminster, 1.46 mi. Contr. Cl-38, Carroll Co., $44,787, 1.23 mi. Contr. Cl-49, Carroll Co., $35,307; to P. D. Phillips & Bros., Salisbury, 1.72 mi. Contr. Q-33, Queen Anne Co. $41,991, 1 mi. Contr. WI-32, Wicomico Co. $24,777, to Kauffman Constr. Co., Denton, 1.5 mi. Contr. K-26, Kent Co. $24,355, to A. Farmer, St. Michaels, 0.82 mi. Contr. Co-36, Caroline Co. $17,999, to Hannemann-Burroughs Co., Salisbury, 1 mi. Contr. S-22, Somerset Co. $35,310, to Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, 2.5 mi. Contr. AA-42, Anne Arundel Co. $112,228, to G. A. Atkinson, Port Deposit, 1 mi. Contr. H-44, Harford Co., $28,803; to Strong & Steffy, Inc., 15 Park Row, New York City, graveling 2 mi. Contr. C-19, Calvert Co. $19,612, to H. S. Swann, La Plata, 2.81 mi. Contr. Ch-30, Charles Co. $31,509, to E. R. P. Smith, Hyattsville, 1.7 mi. Contr. Ho-49, Howard Co. $21,835; to E. C. Valentine, Rocky Ridge, macadam resurfacing 7.8 mi. Contr. W-34, Washington Co. $123,272. Noted Apr. 9 and 16.

Maryland—State Roads Comn., 601 Garrett Bldg., Baltimore, concrete paving 0.68 mi. Contr. BC-51, Baltimore Co., to Tydings, Marine Co., 2 East Lexington St., Baltimore, $29,406; graveling 2 mi. Contr. C-22, Calvert Co., to Strong & Steffy, 15 Park Row, New York City, $23,750; concrete shoulders on 4 mi. Contr. B-20-B, Baltimore Co., to H. D. Campbell & Sons, Towson, $49,345. Noted Apr. 9.

Md., Baltimore—Bd. Awards, sheet asphalt paving Calvert, Hanover and Charles Sts., Linwood and Fairmount Aves., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $75,637; also 15,150 sq.yd. streets in Contr. 276 OC, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $50,058. Noted Apr. 23.

North Carolina—State Hy. Comn., Raleigh, grading and plain concrete paving 3½ mi. Project 697-A (Extension), Union Co., to J. O. Heyworth, Inc., Harvester Bldg., Chicago, Ill., $113,198.

Alabama—State Hy. Dept., Montgomery, (**e. e. means engrs. est.**) grading 29.86 mi. Hunter Station-Prattville Rd., 18 ft., Montgomery Co., to D. R. Cook, Selma, $115,993, e. e. $117,000, 24.83 mi. Prattville-Chilton Co. line Rd., 18 ft., Autauga Co. to Newell Constr. Co., 3828 Ave. A, Birmingham, $65,433, e. e. $66,000; sand clay surfacing 17 mi. Greenville-Wilcox Co. line Rd., 18 ft., Butler Co., to R. L. Kenan, Selma, $113,813, e. e. $114,000; gravel surfacing 1.9 mi. Troy-Orion Rd., 18 ft., Pike Co., to W. T. Ogletree, Troy, $4,050, 2 small bridges on Birmingham-Decatur Rd., Blount Co., to W. H. Pattie, Birmingham, $7,215. Noted Apr. 9.

Ala., Atmore—Asphalt surfacing 8 blocks Pensacola Ave., Main, Horner and Nashville Sts., 40 ft., to Morgan Hill & Co., Woodward Bldg., Birmingham, $50,000. Engrs. est. $51,000.

La., Lafayette—V. E. Smith, city engr., 4 mi. cement sidewalks, to Gulf Constr. Co., Opelousas, $29,205; portion of sidewalks, also light and water system, to C. J. Montgomery, Kaplan, $21,000. Noted Apr. 16.

Ohio — Guernsey Co. (Cambridge) and Tuscarawas Co. (New Philadelphia), improving Star Route 8, from Guernsey-Tuscarawas Co. line and extending north to New Comerstown, to W. M. Brode, New Comerstown, $117,066. Engrs. est. $120,000.

O., Cleveland—Improving South Moreland Blvd. and Honeydale Ave., 4,693 lin.ft. stone curbing, 5,070 lin.ft. 4 in. drain tile gutter, 6,410 sq.yd. sheet asphalt paving, to Bentley Bros., 3030 Euclid Ave., $20,371 and $15,963 respectively, Darmouth Ave. and West 165th St., 2,930 lin.ft. stone curbing, 3,250 lin.ft. 4 in. drain tile gutter and 5,130 sq.yd. sheet asphalt paving, to High-

Streets and Roads (Continued)

way Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $10,460 and $14,286 respectively; vitr. brick paving 10,600 sq.yd. St. Clair Ave., and sheet asphalt paving 4,900 sq.yd. Barberton Ave., to Baldwin Bros., 4500 Euclid Ave., $70,554 and $23,597 respectively. Noted Apr. 2.

O., Cleveland Heights (Warrensville P. O.)—Grading, curbing, guttering and sheet asphalt paving Fairmount Rd., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $118,574. Noted Apr. 2.

O., Columbus—W. H. Duffy, dir. Pub. Serv., asphalt paving 4,029 ft. Bruck St., 26 ft., to Franklin Asphalt Paving Co., 209 South High St., $54,019, 8,352 ft. Neldon Rd., 36 ft., to B. F. Patterson, 1214 Neill Ave., $143,728; concrete paving 300 ft. alley north Handford St., 16 ft., to Yale Ave. Constr. Co., 146 Yale Ave., $2,069, 656 ft. Capitol St., 20 ft., to R. J. Dienst, 480 South 5th St., $4,083; improving 247 ft. alley north Beck St., 18 ft., to Federal Paving Co., 996 McAllister Ave., $1,407.

O., East Cleveland (Cleveland P. O.)—Vitr. brick and sheet asphalt paving 6 streets, to Rieley Bros., The Arcade, Cleveland, $140,000; 3 streets, to Gould & Maybach, 16311 Saranec Rd., Cleveland, $60,000.

O., Maple Heights (Cleveland P. O.)—Curbing, guttering and vitr. brick paving 6 streets, to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., Cleveland Heights, $116,000.

O., Medina—Wayne Co., asphalt paving Rittman-Wadsworth Rd., to C. S. Burkheart, Wooster, $29,707. Engrs. est. $28,000. Noted Mar. 12.

O., New Comerstown—City, vitr. brick paving State St., portion of I. C. H. Highway 413 between Uhrichsville and Coshocton, to W. N. Brode Co., New Comerstown, $44,877. Engrs. est. $50,000. Noted Oct. 9.

Michigan — State Hy. Dept., Lansing, gravel surfacing 6.58 mi. Assessement Dist. 439, Ottawa, Allegan and Kent Counties, to O. Kleet, Hartford, $47,804.

Michigan—State Hy. Dept., Lansing, to Vise & Cray, Bronson, graveling Mattison Lake Rd. 12, Branch Co.; to H. A. Drake & Son, Battle Creek, Coldwater Lake Rd. 12 $17,359, Fox School 11 $8,218, Mattison Lake Rd. 10 $4,868, Union City Rd. 9 $9,227.

Michigan—State Hy. Dept., Lansing, will concrete 9.939 mi. Federal Aid Project 82-B, Washtenaw Co., by day labor. G. C. Dillman, Lansing, ch. engr.

Mich., Bad Axe—Huron Co., gravel surfacing 4 mi. Assessment Dist. 25, to Stephenson & Beadle, Harbor Beach, $26,124; 6 mi. Assessment Dist. 14, to W. E. Foale Co., Warren Ave., Saginaw, $66,537.7

Mich., Centerville—St. Joseph Co., waterbound macadamizing 4.075 mi. Au Clair-Sodus Rd., to W. Cleary, St. Joseph, $72,469; 8.6 mi. Wagner School Rd., to A. W. Taylor Constr. Co., Laporte, Ind., $155,000.

Mich., Detroit—Wayne Co. Rd. Comn., sub-grading, etc. 11.2 mi. Allen Rd. from Ecorse to Fort Rds., 53,348 cu.yd. excav., 5,720 ft. 12 in., and 3,914 ft. 24 in. tile pipe, 116 in. ft. 36 in. rein.-con. pipe, etc., to Donnelson & Hall, Dryden, $82,000.

Mich., Detroit—To R. J. Powelson, 6415 Iroquois Ave., one course concrete paving 2,275 sq.yd. Alley 2162 $5,498, 1,125 sq.yd. Alley 2168 $2,763, 975 sq.yd. Alley 2169 $2,445, 425 sq.yd. Alley 2170 $1,099, 1,430 sq.yd. Alley 2171 $3,572; to Otis Cement Constr. Co., 806 Hammond Bldg., 2,190 sq. yd. Alley 2163 $5,490, 1,765 sq.yd. Alley 2164 $4,260, 1,083 sq.yd. Alley 2167 $2,700, 924 sq.yd. Alley 2172 $2,020, 770 sq.yd. Alley 2173 $1,932; to Bishop & Weir, 1305 Lafayette Bldg., 1,355 sq.yd. Alley 2166 $3,313, 1,360 sq.yd. Alley 2165 $3,253.

Mich., Grand Rapids—Sheet asphalt on concrete paving Henry Ave. between Logan and Watkins Sts., to Klotte & Son, Grand Rapids, $28,772.

Wisconsin—State Hy. Comn., Madison, to Cameron & Joyce Co., Keokuk, Ia., improving Lancaster-Fennimore Rd., Federal Aid Project 376-A, Grant Co., 36,680 cu.yd. earth excav. at $0.41 per cu.yd., 3,672 cu. yd. loose rock excav. $1, 1,949 cu.yd. solid rock excav. $1.80, 5,026 cu.yd. borrow $0.40, 23,015 lin.ft. intercepting ditch $0.02, etc., total $49,768; to J. Gunnison & Son, 803 East Gorham St., Madison, paving above road, 17,968 cu.yd. crushed stone at $2.14 per cu.yd., 850 cu.yd. sand $1, total $39,302; to Huff & Kammerud, Argyle, improving Shullsburg-Monroe Rd., Federal Aid Project 374-A, 6,340 cu.yd. 1.25 to 3 in. broken stone, 3,639 cu.yd. less than 1.25 in. broken stone, and 800 cu.yd. screenings, each $2.18 per cu.yd., total $23,585. Noted Mar. 26.

Wis., Madison — Dane Co. Hy. Comn., Madison, to M. Mikkelson, Black Earth, grading and gravel surfacing Black Earth-Mt. Horeb Rd. $16,253, 1,455 cu.yd. Cross Plains-Pine Bluff Rd., $8,692, to Ayen & Gallagher, Mt. Horeb, 1,800 cu.yd. Mt. Horeb-Mt. Vernon Rd. $6,906, to Kutze & Gallagher, Oregon, 1,500 cu.yd. Lakeview-Macfarland Rd. $3,262, 1,092 cu.yd. Oregon-Lake Kegonsa Rd., $3,946, 1,342 cu.yd. Oregon-Lake Kegonsa Rd. D-6-26 $17,114, 2,368 cu.yd. Oregon-Lake Kegonsa Rd. D-5-14 $8,752, street in Macfarland, S. T. H. 10 $926; to R. Foll, Deerfield, gravel surfacing 2,400 cu.yd. Vernon-Middleton Rd. D-45-31 and 2,400 cu.yd. Vernon-Middleton Rd. $3,024, 2,000 cu.yd. Columbus-Edgerton Rd. Trunk Highway 73 $2,220, 1,800 cu.yd. Columbus-Edgerton Rd. D-67-35 $2,124, 2,760 cu.yd. Deansville-York Rd. D-52-35 $3,064, to G. J. Lengst, Prairie du Chien, 3,420 cu.yd. Mt. Horeb-Daleyville Rd. D-22-05 $2,360; to Schmidt & Lenz, Dane, concrete culverts and bridges on S. T. H. 12, S. 9, T. 8 and R. 8 $182, to H. O. Jarlsburg, Cambridge, S. T. H. 73, D-69-12 $420, Rodefield Culvert $759, Sprechter Bridge $436, and Klein Bridge $159.

Ia., Cedar Rapids — Concrete Paving about 17,000 sq.yd. various streets in Country Club addition, to Stark-Schneider Constr. Co., 118 South 11th Sts., approximately $46,000.

Ia., Des Moines—Polk Co., grading 60,000 cu.yd. Hastie Rd., etc., to J. H. Miller & Son, Brooklyn, $17,345; bridges on same road, Sect. B, to Jensen Constr. Co., Kimballton, $13,000.

Ia., Nevada—See "Bridges."

Minn., St. Paul—Improving Central Ave. and Dunlap St., 4,804 sq.yd. brick, 2,332 sq. yd. 7 in. rein.-con., 9,027 sq.yd. sheet asphalt on 7 in. concrete and 37,723 sq.yd. sheet asphalt on 6 in. concrete paving, 13,397 lin.ft. concrete curbing, etc., to Fielding & Shepley, 216 University Ave., $189,900.

Minn., St. Paul—H. W. Austin, city purch. agt., rein.-con. paving, etc., 11,963 sq.yd. Snelling Ave. between Randolph St., also Otto Ave., to Feyen Constr. Co., 277 Burgess St., $34,770. Noted Apr. 9.

Kan., Emporia — Improving various streets, 13,000 sq.yd. concrete surfacing, 7,500 ft. curb and gutter, 500 ft. 12 and 15 in. vitr. clay sewers, to C. J. McCoy Constr. Co., Emporia, $52,158. Noted Jan. 29.

Kan., Topeka — E. M. Covell, city clk., improving various streets, 4,000 sq.yd. 3 in. brick on 7 in. concrete, 465 sq.yd. 3 in. brick on 8 in. concrete, 4,177 cu.yd. grading, etc., to Kaw Paving Co., 616 N. E. Bldg., $24,892, engrs. est. $27,375; 6 and 8 in. concrete surfacing, etc. 44,113 sq.yd. various streets, to C. B. Ramsey, 1600 Plass St., $137,887, engrs. est. 142,278. Noted Apr. 2.

Neb., Falls City—M. Naylor, city clk., asphaltic concrete paving 38 blocks various dsitricts, to Monarch Eng. Co., Falls City, $104,700. Noted Apr. 2.

Neb., Madison — Grading, curbing and bitulithic paving 16,000 sq.yds. Dist 1, to Western Asphalt Co., 1st and Nebraska Sts., Sioux City, Ia., $2.25 per sq.yd., total $42,000. Engrs. est. $45,000.

Wyoming—State Hy. Comn., Cheyenne, grading, etc., 15 mi. Sect. 1, Big Piney-Daniel Rd., Federal Aid Project 177, Sublette Co., and 7.3 mi. Sect. 2 of above road, both 24 ft., to Taggart Constr. Co., Cody, $47,150 and $20,239 respectively, engrs. est. $56,285 and $25,000 respectively; also grading, surfacing, etc., 3 mi. Kirby-Worland Rd., Federal Aid Project 171, Washakie Co., to J. S. Tebbs, Cody, $34,045, engrs. est. $49,000. Noted Apr. 9.

Tex., Albany—Shackelford Co., grading, bridging, etc., 12.71 mi. State Highway 1, 104,201 cu.yd. excav., 1,207 cu.yd. concrete, 127,913 lb. reinforcing, to E. Shelton, Temple, $60,879. Engrs. est. $88,700. Noted Apr. 16.

Tex., Beaumont — Asphalt on concrete surfacing Magnolia Ave. Shamrock, Hazel and Neches Sts., etc., to Uvalde Rock Asphalt Co., Beaumont, Engrs. est. $38,000.

Tex., Dallas — Forest Heights Development Co., c/o G. A. Gamble, pres., Praetorian Bldg., paving Cedar Crest addition, to Uvalde Paving Co., Insurance Bldg., approximately $30,000.

Tex., Del Rio—Asphalt on macadam surfacing Main, Losya, Greenwood, Spring, Garfield, Martin, Bway. and Broroum Sts., to Uvalde Co., City Natl. Bank Bldg., San Antonio, approximately $300,000. Engrs. est. $370,000.

Tex., Galveston—For 1 in. rock asphalt on 4 in. concrete surfacing 31st and 39th Sts. from Bway. to Boulevard, to H. J. Hetkes, 3115½ R St., $123,689. Engrs. est. $135,000.

Tex., Henrietta — Clay Co., grading, bridging, etc. 7.14 mi. State Highway 5, Federal Aid Project 448-A, 1,538 cu.yd. concrete, 226,683 lb. reinforcing, etc., to J. P. Foty, Wichita Falls, $73,279. Engrs. est. $83,465. Noted Apr. 9.

Tex., Houston—Harris Co., grading and bridging State Highway 35, 820 cu.yd. concrete, 3,170 cu.yd. grading, 125,500 lb. reinforcing, to Bates & McClendon, Houston, $36,171. Engrs. est. $40,000. Noted Apr. 9.

Tex., Post City—Vertical fibre brick on 5 in. concrete surfacing 34,260 sq.yd. various streets, to G. Samson & J. Napier, Post City, $124,001. Engrs. est. $100,000.

Tex., Rockport—Arkansas Co., grading, bridging and mudshell surfacing, 6.4 mi. State Highway 57, 18 ft., to M. E. Ruby, Banconia, $66,000.

Tex., Sonora—Sutton Co., to W. T. Montgomery, Alamo Bank Bldg., San Antonio, grading, bridging, gravel and crushed stone surfacing 7.86 mi. State Highway 27, 18 ft., Federal Aid Project 425, Sect. A, $75,391, engrs. est. $83,400, 10.84 mi. same road, Sect. B, $76,908, engrs. est. $85,000, and 11.25 mi. same road, Sect. C, $112,601, engrs. est. $125,000. Noted Nov. 13.

Tex., Sweetwater — Nolan Co., grading, bridging, etc., 15.31 mi. State Highway 1, Federal Aid Project 444-D, 26 ft., to Hannah Constr. Co., Box 994, Waco, $43,728. Engrs. est. $108,640. Noted Apr. 9.

Tex., Texarkana — Surfacing 24 blocks Weber Pl., to O. Yenglin, Texarkana, $34,132. Engrs. est. $35,000.

Okla., Oklahoma City—Grading and sheet asphalt surfacing 3,900 sq.yd. 21st St., to Western Paving Co., Tradesmens Bldg., $29,400. Engrs. est. $30,000.

Okla., Wetumka—Brick on concrete surfacing 7,000 sq.yd. Dist. 6, to Park & Moran, Okmulgee, $34,018. Noted Apr. 16.

Colorado—State Hy. Comn., Denver, concrete paving 1.951 mi. Pueblo-La Junta Hy., Federal Aid Project 246-C, Pueblo Co., to Strange-McGuire, 401 S. & T. Bldg., Salt Lake City, Utah, $57,109, engrs. est. $63,332; gravel surfacing 2.833 mi. Monte Vista-Alamosa Hy., Federal Aid Project 270-B, Rio Grande Co., to San Luis Valley Constr. Co., Sanford, Colo., $15,472, engrs. est. $25,051. Noted Apr. 16.

INSPECTION SHED ENCLOSURES—NEW YORK, N. Y.

Following are lowest three bids opened by Bd. Transportation, 49 Lafayette St., Apr. 2, for inspection shed enclosures at Westchester Ave. Yard and 239th St. Yard. (A) D. C. Serber, Inc., Grand Central Terminal, (awarded contract); (B) Willets Construction Co., 280 Madison Ave.; (C) McHarg-Barton Co., 1328 Bway. The unit bids of the most important items are as follows:

	A	B	C
6,000 cu.yd. excavation, including disposal	$2 20	$2 00	$3 00
4,500 cu.yd. concrete masonry	22 00	21 50	22 00
200 cu.yd. concrete masonry	21 00	20 00	20 00
12 sq.yd. cobble stone lining for trenches	2 00	5 00	5 00
2 brick chimneys for boiler houses, complete	3,630 00	3,950 00	3,000 00
700 cu.ft. limestone	8 00	8 00	6 00
100,000 cu.ft. brick masonry (except for boiler house chimneys (a) common brick)	1 05	95	1 33
70,000 sq.ft. slag or gravel for roofs	0275	04	035
8,500 sq.yd. waterproofing (c) 5 ply	88	1 00	90
10 sq.yd. waterproofing	2 00	1 50	1 20
12,000 sq.ft. slate surfaced roofing	10	15	12
10,000 lin.ft. 3-ply felt flashing	26	30	28
70 ton steel beams and shapes, painted and erected	100 00	150 00	125 00
40 ton steel rods and bars	100 00	100 00	135 00
12 ton miscellaneous iron castings	132 00	250 00	150 00
52,000 sq.ft. of slab wire mesh reinforcement (a) not exceeding 1 sq.in. cross section per ft. width of slab	035	05	03
36,000 sq.ft. of slab wire mesh reinforcement (b) exceeding 1 sq.in. cross section per ft. width of slab	05	06	05
Extended totals complete job	$511,848	$517,683	$525,435

Streets and Roads (Continued)

Washington—State Hy. Comn., Olympia, to Norris Bros., Arlington, improving 3 mi. Pacific Highway between Allen and Burlington, Skagit Co., 2,950 cu.yd. excav. at $0.60 per cu.yd., 1,880 sta.yd. overhaul $0.02, 507 sq.yd. ½ width concrete paving $2.50, 34,573 sq.yd. full width concrete paving $2.14, total $79,252; to A. Boseloff, Seattle, improving 2.9 mi. State Rd. 5, Mill Creek to Mayfield, Lewis Co., 42,200 cu.yd. earth excav. $0.39, 1,000 cu.yd. solid rock excav. $0.80, 6,860 cu.yd. rock surfacing $1.79, 133,790 sta.yd. overhaul $0.04, total $40,787; to Yakima Paving Co., Perkins Bldg., Tacoma, improving 1.76 mi. State Rd. 5 between Ohop Hill and Tanwax Hill, Pierce Co., 2,200 cu.yd. earth excav. $0.75, 1,870 cu.yd. sub-grade $0.80, 7,700 sq.yd. full width concrete paving $2.40, 11,140 sq. yd. half width concrete paving $2.45, total $65,551. Noted Mar. 12.

California—State Hy. Comn., Sacramento, concrete shoulders and asphaltic concrete surfacing (standard mix) 1.9 mi. road between Arcata Hill and Santa Barbara, Santa Barbar Co., to Cornwall Constr. Co., Santa Barbara, $64,102.

California—State Hy. Comn., Sacramento, widening 5.92 mi. road between point 2 mi. north of Fresno to Herndon, Fresno Co., from 15 to 20 ft., to Stewart & Bland, Fresno, $40,610. Noted Mar. 12.

Calif., Brea — Curbing, guttering and asphaltic concrete paving 74,500 sq.ft. West Cedar St., to Griffith Co., Railway Bldg., Los Angeles, $219,550.

Calif., Glendale — City Council, curbing, sidewalks, 4 in. asphaltic concrete paving, etc., Howard, Bway. Sts., etc., to Federal Paving Co., Standard Oil Bldg., San Francisco, $34,720. Noted Apr. 16.

Calif., Huntington Beach — For 5 in. asphaltic concrete paving Orange Ave. between 11th and 23rd Sts., to G. M. Souter, 410 9th St., $54,853. Noted Feb. 19.

Calif., Pomona — For 6 in. concrete paving, etc. West Holt Ave., to T. W. Crawford, 110 Laurel St., $31,22?

—**Calif., Pomona** — For 6 in. concrete paving, etc. South Towne Ave., to T. T. Crawford, 510 Laurel St., $88,400. Noted Apr. 9.

Calif., Redondo Beach—Grading, guttering, curbing, 2 in. on 4 in. asphaltic concrete paving, etc., 253,386 sq.ft. Beryl St., to Griffith Co., Railway Bldg., Los Angeles, approximately $61,250.

Calif., San Diego—A. H. Wright, city clk., 5 in. concrete paving 252,268 sq.ft. National Ave., to B. Noble, Spreckles Bldg., $41,682. Noted Apr. 16.

Ont., Toronto—Bd. Control, City Hall, to Grant Contg. Co., 50 Front St. E., brick block paving Glenmore Rd. $4,259, concrete paving lane west of Yonge St. $5,293, concrete sidewalks on Davenport Rd., Wanless Ave. and Edith Dr.; to Dept. Pub. Wks., by day labor, asphalt paving Hazelwood Ave. $1,381, Indian Valley Crescent $1,461, Seller Ave. $2,268, asphaltic concrete paving Ruyhl Ave. $1,654, asphalt surfacing Front St. E. $5,526, concrete paving Fitzroy Terrace $710, concrete sidewalks on Carrick, Woodbine and Fairview Aves.; to Constructing & Paving Co., Confederation Life Bldg., asphalt paving Chamber Ave. $3,307, Ford St. $12,093, to Godson Contg. Co., Manning Chambers, Gunns Rd. $10,013, to Kilmer & Barber, 10 Adelaide St. E., Euston Ave. $4,175; to Warren Bituminous Paving Co., 54 University Ave., asphaltic concrete paving Bayfield Crescent, Caroline and Elmer Aves. $18,281; to H. Mitchell, 464 Brock Ave., concrete sidewalks on Harriett St., Bastedo, Clendennan, Euston, Gilmore, Duplex and Edna Aves., to A. Johnson, 17 Fairmount Crescent, Ainslee St., Bayfield Crescent, Chatham, Colton, Elmer and Golfview Aves. Noted Mar. 26.

Ont., Toronto — Toronto & York Good Rds. Comn., 57 Adelaide St. E., rein.-con. paving 200 cu.yd. Elliott Bridge, to W. E. Tidy, 394 Runnymede Rd., Mt. Albert Bridge to Orr & Orr, 121 Carlaw Ave.; bituminous concrete paving 2½ mi. Sutton Rd., to Warren Bituminous Paving Co., 54 University Ave.; macadamizing 2 mi. Vaughan Rd., to R. S. Fisher, 877 Broadview Ave.; 2 in. Scarlett Rd., to Constructing & Paving Co., Confederation Life Bldg., 2½ mi. Kennedy Rd., to A. E. Jupp Constr. Co., 170 Berkeley St. and Orr & Clark, 121 Carlaw Ave., 2½ mi. King Rd., to J. G. Dagg, Nashville, and 1½ mi. York Rd., to Standard Constr. Co., Mimico.

Buildings—Industrial

PROPOSED WORK

Mass., Hanover—PLANT—National Fireworks Co. plans rebuilding plant, recently destroyed by fire. $40,000 or more. Engineer and architect not selected.

Mass., Malden (Boston P. O.)—REPAIR and SERVICE GARAGE—Boston Elevated Railway Co., Park Sq. Bldg., Boston, plans repair and service garage. $50,000 or more. A. Blackburn, c/o owner, engr.

Mass., Somerville — FACTORY — Graff Underwood Co., 18 Beacon St., Boston, plans factory, Beacon St., here. To exceed $40,000. Engineer and architect not selected.

Mass., Woronoco—WAREHOUSE—Stratmore Paper Co. having revised plans prepared by J. Hower, engr. and archt., c/o owner, 4 story, 45 x 200 ft., rein.-con. and steel addition. $160,000.

Conn., Mystic — FACTORY — Robinson Silk Co. having plans prepared by Lockwood, Greene & Co., archts. and engrs., 1 Pershing Sq., New York City, 1 story and basement, rein.-con. and steel, plain foundation. $45,000.

Conn., Waynesboro—MILL—Stehli Silks Corp. having plans prepared by Lockwood, Greene & Co., archts. and engrs., 1 Pershing Sq., New York City, 1 story and basement, brick and steel mill, plain foundation. $90,000.

N. Y., New York—BOILER PLANT—Dept. Plant & Structures, Municipal Bldg., plans rein.-con., brick and steel, plain foundation, 731 East 16th St. $125,000.

South Carolina — POWER PLANT — Southern Power Co., 432 South Church St., Charlotte, N. C., W. S. Lee, vice pres., had plans prepared 50,000 or 60,000 hp. hydroelectric plant on Rocky Creek, in Lancaster Co., here. $1,250,000.

Tenn., Chattanooga — MILL—Scott Probasco, and T. H. McKinney, et al, 95 Crest St. organized Natl. Yarn Processing Co. to build mercerizing plant. $200,000.

O., Akron—FACTORY and OFFICE—Apr. 23, by Osborn Eng. Co., archts. and engrs., 7016 Euclid Ave., Cleveland, soon lets contract, 2 story, 58 x 248 ft. factory and 2 story, 42 x 152 ft. office building, brick and rein.-con., here, for Phila. Rubber Wks. Co., Bartges St. $150,000.

O., Cleveland — FACTORY — Frankelite Co., D. Frankel, pres., 5016 Woodland Ave., having plans prepared by A. Sogg, 3030 Euclid Ave., rebuilding 3 story, brick and timber, East 51st St., recently destroyed by fire. $40,000.

O., Cleveland—SHOP—Ohio Forge Co., 2955 East 92nd St., had plans prepared 1 story, 60 x 71 ft., brick and steel, 2955 East 92nd St. $40,000. Private plans.

O., Cleveland—SUB-STATIONS—City, H. Wright, dir. Pub. Utilities, City Hall, having preliminary plans prepared by C. G. Beckwith, engr. and archt., City Hall, 1 and 2 story, 40 x 48 ft., sub-station at Windsor Ave., 40 x 80 ft. sub-station at Scranton Rd., and 80 x 120 ft. addition to machine shop at West 41st St. $250,000.

Ind., Terre Haute — CAR SHOPS — Shourds-Stoner Co., archts., 510 Tribune Bldg., takes bids about May 15, 1 and 2 story, 60 x 240 ft. steel store room, master mechanic's office, carmens rest room, auditorium, showers and lockers, etc., Wabash Ave., for T. H. I. & E. Traction Co., 725 Wabash Ave. $90,000.

Mich., Detroit — MILL — Peerless Portland Cement Co., 2410 1st Natl. Bank Bldg., had plans prepared by A. Kahn, 1000 Marquette Bldg., 1 story, 70 x 156 ft., steel and terra cotta, West Jefferson Ave. $50,000.

Mich., Ontonagon — PAPER MILL — Northern Fibre Co., D. C. Everest, pres., 601 McIndoe St., Wausau, plans 2 story and basement, 72 x 177 ft., brick and concrete addition, plain foundation. Private plans.

Ill., Joliet—BOILER HOUSE and LAUNDRY—See "Buildings—Commercial."

Wis., Madison — PLANT — French Battery Co., 2317 Winnebago St., having plans prepared 1 story, 200 x 200 ft., brick, rein.-con. and steel warehouse and plant. $40,000. Private plans.

Wis., Merrill—MILL—Raymond Lumber Co., M. Raymond, pres., plans rebuilding planing mill, brick, recently destroyed by fire. $40,000-$50,000. Private plans.

Wis., Nasbro (Brownsville P. O.) — PLANT — Western Lime & Cement Co., plans rebuilding 2 story steel and stone, plain foundation, recently destroyed by fire. $50,000. Private plans.

Wis., Racine—FOUNDRY—A. A. Wickland & Co., archts. and engrs., 5 South Wabash Ave., Chicago, Ill., takes bids about May 1, 1 story, 90 x 240 ft., rein.-con., brick and steel, plain and concrete pile foundation, Kewanee St., for Standard Fdry. Co., 7500 Kewanee St., T. Jane, mgr. $250,000. Noted Apr. 23.

Wis., Sheboygan — FACTORY — W. C. Weeks, archt., 720 Ontario Ave., preparing plans 2 story and basement, 50 x 140 ft., brick, rein.-con. and steel, Alabama St. $50,000. Owner's name withheld.

Tex., Ft. Worth—MILL—Ft. Worth Textile Mills, c/o J. R. Griffin, Majestic Bldg., having plans prepared by W. G. Clarkson & Co., 606 First Natl. Bank Bldg., 3 story, 150 x 620 ft., rein.-con., brick, steel and stone, plain foundation, Cleburne Interurban and Forest Hills Aves. $500,000.

Tex., Sweetwater—PLANT—United States Gypsum Co. plans concrete and brick plant addition. $150,000 to $200,000.

Calif., Bakersfield—PLANT—Bakersfield Daily Californian, A. Harrell, publisher, plans brick or concrete plant. $100,000.

Calif., Oakland — FACTORY — Tyre Bros. Glass Co., 666 Townsend St., San Francisco, having plans prepared 1 story, concrete and steel, 7th and Cypress Sts. To exceed $40,000. M. H. Lanzitt Co., c/o owner, engr.

Calif., Sacramento—SHOP—McLaughlin Sheet Metal Wks., 221 J St., having plans prepared by Dean & Dean, California State Life Bldg., 1½ story, 80 x 160 ft., brick shop. $40,000.

Calif., San Jose—PLANT—Guggenheim Packing Co., c/o H. Krause, archt., Bank of San Jose Bldg., having plans prepared 3 story, brick, Pleasant and Autumn Sts. $45,000.

Calif., Tulsa — PLANT — Los Angeles Creamery Co., K St., had plans prepared 1 story, 35 x 115 ft. casein and condensed milk plant. Private plans.

Calif., Van Nuys—PLANT—Pan American Petroleum Co., 811 South Spring St., Los Angeles, plans distributing plant and several service and oil stations, on 100 x 210 acre site, Cedroa and Aetna Aves., here.

Que., Grand Mere — SHOPS — Canadian Natl. R.R., Windsor Sta., Montreal, plans railroad shops, St. George St., here. $300,000. J. E. Morazain, genl. supt.

Ont., Dundas — PLANT — Kaustine Mfg. Co., plans enlarging plant. $50,000.

Ont., Frood Mine — FACTORY — Mond Nickel Co., Coniston, plans 32 x 120 ft. machine shop, and 32 x 106 ft. foundry, both concrete and brick. $100,000. L. G. Ingolsfrud, Coniston, engr.

Ont., Hamilton—BAKERY—Ideal Bread Co. Ltd., 13 Sanford St. S., G. Henon, mgr., having plans prepared bakery. $150,000. Private plans.

BIDS DESIRED

Mass., Chicopee—MANUFACTURING—Asinol & Sons Mfg. Co., Inc., 29 Worthington St., taking bids 4 story, 40 x 130 ft., brick and timber, Worthington St. $80,000. H. C. Hearne, 387 Main St., Springfield, archt.

Mass., Monson—PLANT—A. D. Ellis Mills Inc., taking bids 1 and 2 story, 91 x 125 ft., rein.-con., brick and steel power and manufacturing building to contain boiler house, dye house, engine room and wool sorting room. $50,000. Lockwood, Greene & Co., 24 Federal St., Boston, archts. and engrs.

Pa., Newell — ROUND HOUSE — Pittsburgh & Lake Erie R.R. Co., Springfield and Carson Sts., Pittsburgh, taking bids 1 story, 21 x 116 ft., brick and steel addition, here. A. R. Reymer, c/o owner, engr.

Pa., Pittsburgh — CREAMERY — Fairmont Creamery Co., 100 25th St., taking bids 5 story and basement, 24 x 99 ft., brick and tile addition, 25th and Smallman Sts. $50,000. Private plans.

Pa., St. Mary's — PLANT — St. Mary's Clay Products Co., taking bids 1 story and basement, brick, concrete and steel plant. $500,000. C. A. Searing, Farmers Bank Bldg., Pittsburgh, engr.

O., Cleveland—PLANT—Herald Publishing Co., 2380 West 7th St., taking bids 2 story and basement, 40 x 50 ft., brick, steel and concrete addition, West 7th St. $40,000. M. C. Rousseau, Bulkley Bldg., archt.

Ind., Muncie — FACTORY — Kitselman Bros. Fence Mfg. Co., South Council Sts., taking bids 3 story, 175 x 220 ft., brick and stone, plain foundation, Council St. $85,000.

Wis., Watertown—PLANT—May 8, by Watertown Milk Products Assn., J. Schumann, secy., Route 2, 2 story and basement, 62 x 80 ft. factory, 1 story, 32 x 40 ft. boiler house, and 1 story, 24 x 40 ft. receiving room, all rein.-con. and brick, plain foundations. A. Kuenzi, 202 North Water St., archt.

Calif., Los Angeles—LAUNDRY—May 11, by Supervs. Los Angeles Co., 1 story, 100 x 200 ft., rein.-con. pile foundation and bridge connecting with other buildings, at County General Hospital, here. County Mechanical Dept., City Hall, engrs.

Calif., Pomona—MILL—C. F. Whittlesey, archt., 6533 Hollywood Blvd., Los Angeles, taking bids 1 story, approximately 75 x 300 ft., silk mill, brick, for Swing & Walker, 308 Citizens Natl. Bank Bldg., Los Angeles. $55,000. Noted Apr. 9.

Ont., Windsor—FACTORY—Bayer Aspirin Co., H. L. Shade, mgr., taking bids new factory. $200,000.

BIDS RECEIVED

N. Y., New York—POWER HOUSE—E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., Apr. 24, refrigeration power house.

Buildings—Industrial (Continued)

Exterior and East 151st Sts., from W. W. Constr. Co., Inc., 15 West 40th St., $284,-290. Noted Apr. 16.

Calif., Oakland — POWER HOUSE, GARAGE, etc.—Supervs. Alameda Co., 2 story and basement, rein.-con. power house, garage, etc., for county hospital, from J. F. Branagh, 184 Perry St., $153,000. Noted Feb. 23.

CONTRACTS AWARDED

Mass., Boston—SUB-STATION—Edison Electric Illuminating Co., 39 Boylston St., 5 story, 30 x 90 ft., rein.-con. and brick, plain foundation, Canton St., to I. F. Woodbury & Sons, 185 Summer St. Archts. est. $100,000.

Conn., Hartford—INDUSTRIAL—Gray Telephone Pay Station Co., Arbor St., 5 story addition, to Porteus-Walker Co., 13 Forest St., $174,000.

N. Y., Flushing—FACTORY—Company of Master Craftsmen, Inc., 5th Ave. and 47th St., New York City, 5 story, 60 x 240 ft. rein.-con. factory, here, to Turner Constr. Co., 244 Madison Ave., New York City.

Pa., Phila. — FACTORY — Fairmount Foundries, 3rd and Westmoreland Sts., 11 story, 90 x 97 ft., rein.-con. and brick addition, plain foundation, American and Westmoreland Sts., to H. A. Hopple, Heed Bldg. Private plans.

Pa., Phila.—FACTORY—Minter Bros., 5051 Lancaster Ave., 3 story and basement, 74 x 146 ft., rein.-con. and brick factory, plain foundation, to W. R. Dougherty, 1610 Sansom St. Noted Mar. 12.

Pa., Phila.—MILL—H. C. Aberle & Co., A and Clearfield Sts., 5 story and basement, 90 x 195 ft. hosiery mill, rein.-con. and brick, plain foundation, to W. J. Steele & Son, 219 North Broad St.

Pa., Pittsburgh — SUB-STATION — Duquesne Light Co., 435 6th Ave., 2 story and basement, 50 x 69 ft., brick and steel, Winthrop St., to Dwight P. Robinson Co., 3777 5th Ave. Engrs. est. $40,000.

O., Cleveland—FACTORY, OFFICE and WAREHOUSE—Brooks Co., A. D. Brooks, vice pres., Superior Ave. N. W., 3 story and basement, 108 x 132 ft., brick and rein.-con., 1240 Oregon Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $200,-000. Noted Apr. 9.

O., Cleveland—MACHINE SHOP—Star Machine & Tool Co., J. J. Schugar, pres., 6505 Carnegie Ave., 1 story, 93 x 100 ft., brick, steel and timber, East 93rd St., to L. W. Lapp, 2020 Brunswick Rd. Archts. est. $40,000. Private plans.

Mich., Detroit — FACTORY — Unique Brass Mfg. Co., Detroit, 60 x 125 ft. factory addition, to Everett Winters Co., 1024 Book Bldg.

Wis., Beaver Dam — PLANT — Beaver Dam Fibre Co., O. Olman, Jr., secy., Juneau, will build 1 story, 72 x 130 ft. hemp plant, and 24 x 250 ft. dry kiln, brick, plain foundation, by day labor. $50,000. Private plans.

Wis., Milwaukee — FACTORY — Kerner Incinerator Co., 1029 Chestnut St., 2 and 1 story, 72 x 100 ft., brick, plain foundation, East Water St., to Klug & Smith Co., 69 Wisconsin St. Noted Mar. 19.

Wis., Milwaukee — FACTORY — Roberts Brass Co., 178 Lincoln Ave., 2 story, 70 x 106 ft., brick addition, plain foundation, to Meredith Bros. Co., 253 Washington St. Archts. est. $50,000.

Wis., Milwaukee—LAUNDRY—Mitchell Damp Wash Laundry, 873 Kinnickinnic Ave., 1 story, 60 x 150 ft., brick and timber, Kinnickinnic Ave., to H. Riesen & Son, 1388 Humboldt Ave. Archts. est. $40,000.

Calif., Bakersfield — PLANT — Benham Ice Cream Co., 1420 H St., Fresno, will build 2 story ice cream plant, concrete and brick, Chester Ave., here, by day labor and sub-contracts. $100,000.

Calif., San Francisco — FACTORY — Quality Enameling & Porcelaining Co., 1634 Howard St., 1 and 2 story, 100 x 160 ft., brick and steel, San Bruno and Cortland Aves., to Austin Co. of California, Santa Fe Bldg.

Calif., San Francisco—PLANT—The Bulletin, 6 story and basement, rein.-con., Mission St., to Robinson & Gillespie, 1051 Sutter St., $276,500. Noted Feb. 12.

Calif., Taft—FACTORY—United Electric Co., 1 story, 25 x 125 ft., brick factory, to Los Angeles Building & Constr. Co., Marshall-Strong Bldg., Los Angeles.

Que., Three Rivers — PAPER MILL — Wayagamask News Co. Ltd., paper mill, to Foundation Co. Ltd., 224 St. James St. Montreal; structural steel to Dominion Bridge Co., Lachine. Total est. $3,000,000.

Ont., Toronto—FACTORY—Exide Batteries of Canada, 153 Dufferin St., general contract 2 story factory addition, to Jackson-Lewis Constr. Co., Federal Bldg. Archts. total est. $50,000.

Buildings—Commercial

PROPOSED WORK

Mass., Boston — APARTMENT — One Hundred Thirty-seven Marlboro St., Inc., c/o Boardman Co., Ames Bldg., having plans prepared by Bigelow & Wadsworth, 3 Hamilton Pl., 11 story and basement, brick and stone, 137 Marlboro St. To exceed $150,000.

Mass., Boston—APARTMENT—H. M. Williams, R. C. Pingree and E. Henderson, trustees, 79 Milk St., having plans prepared by Putnam & Cox, 114 State St., 5 story and basement, 4,000 sq.ft. floor space, brick and stone, plain foundation, 32 Beacon St. Archts. est. $160,000.

Mass., Boston—GARAGE—H. I. Shakley, 582 Massachusetts Ave., rejected bids 4 story, 70,000 sq.ft. floor space, rein.-con., brick and steel, 18-20 Deerfield St. $250,-000. Project abandoned. Noted Feb. 5.

Mass., Boston — HOSPITAL — Hospital Dept., J. Manning, pres., rejected bids Apr. 10, 9 story and basement, brick and limestone, plain foundation, Albany and East Concord Sts. $750,000. Will readvertise. Ritchie, Parsons & Taylor, 15 Ashburton Pl., archts. Noted Apr. 23.

Mass., Brookline (Boston P. O.) — GARAGE—Hotel Beaconsfield plans 1 story, brick or concrete service garage, Gladstone St. $150,000 or more. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.) — APARTMENT — Gilmore Constr. Co., 4 Brattle St., having plans prepared by H. Harlow, 4 Brattle St., 4 story and basement, 45 x 125 ft., brick and stone, 31 Concord Ave. $150,000.

Mass., Cambridge (Boston P. O.) — APARTMENT—Harlow Realty Co., 4 Brattle St., having sketches made by H. Harlow, 4 Brattle St., 4 story and basement, 4,500 sq.ft. floor space, brick and stone, plain foundation, 32 Shepard St. $150,000.

Mass., Gloucester—OFFICE and STORE—P. B. Long, 18 Tremont St., Boston, plans 2 or more story, brick store and office building, here. $150,000. Engineer and architect not selected.

Mass., Medford (Boston P. O.)—STORE and OFFICE—Shikes & Long, 18 Tremont St., Boston, plans 2 or 3 story and basement, 12 sq.ft. floor space, brick store and office building, here. $200,000. Engineer and architect not selected.

R. I., Newport—CITY HALL—Bd. Aldermen, having sketches made by Appleton & Stearns, 53 State St., Boston, 2 story and basement, rein.-con., brick and stone city hall. $200,000. Noted Apr. 9.

R. I., Providence — GARAGE — Providence Gas Co., Turks Head Bldg., having plans prepared and takes bids about 1st week in May, 3 story, 200 x 300 ft., brick and concrete, Dexter and Waldo Sts. $600,-000. Jenks & Ballou, 1035 Grosvenor Bldg., archts.

Mass., Quincy—THEATRE, STORE and OFFICE—M. Allen, c/o Tuck & Co., archts., 636 Warren St., Roxbury, having revised plans prepared 3 story and basement, 70 x 200 ft., brick and steel, plain foundation, Wollaston Sect. $200,000. Former bids rejected. Noted Mar. 12.

N. Y., Brooklyn — APARTMENT — H. Kavshansky, c/o Seelig & Finklestein, archts. and engrs., 44 Court St., having plans prepared 5 story, brick, steel and stone, plain foundation, 5th Ave. and 62nd St. $175,000.

N. Y., Brooklyn—HOSPITAL—Brooklyn Eye & Ear Hospital, 94 Livingston St., having sketches made by Crow, Lewis & Wick, 200 5th Ave., New York City, brick, steel and stone hospital, plain foundation. $1,000,000.

N. Y., Brooklyn—HOSPITAL—Caledonia Hospital, Woodruff Ave., having plans prepared by F. V. Pruitt, 342 Madison Ave., New York City, 5 story and basement, brick and stone addition, plain foundation, Parkside Ave. and St. Paul Pl. $250,000. Work will be done by separate contracts under supervision of architect.

N. Y., Glens Falls—HOSPITAL—Warren Co. having preliminary plans prepared by Tooker & Marsh, 101 Park Ave., New York City, 3 story, 95 x 100 ft. tuberculosis hospital. $200,000.

N. Y., New York—APARTMENT—Garment Workers Union, M. Sigman, pres., 3 West 16th St., having plans prepared by A. J. Thomas, 15 East 47th St., 5 story, brick, steel and stone, plain foundation, 158th St. and Sheridan Ave. $1,500,000.

N. Y., New York—HOTEL—Seventh Ave. and 56th St. Corp., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., having plans prepared 15 story, 100 x 175 ft., brick, steel and stone, plain foundation, 7th Ave. and 56th St. $1,250,000.

N. Y., New York — LOFT — S. Barkin, 565 5th Ave., plans 15 story, brick, steel and stone, plain foundation, West 48th St. $2,000,000. Engineer and architect not selected.

N. J., Jersey City—APARTMENT—O. H. Albanesius, 2465 Boulevard, soon takes bids 16 story, brick, steel and stone, plain foundation, Boulevard and Gifford Ave. $1,-000,000. Shape, Bready & Peterkin, 50 East 42nd St., New York City, archts. and engrs.

N. J., New Brunswick — MUNICIPAL — City plans new municipal building. $300,-000. Engineer and architect not selected. E. J. McLaughlin, city clk.

Fla., Moore Haven—COURT HOUSE—Glades Co. voted $150,000 bonds, for court house. N. S. Wainwright, clk.

Tenn., Memphis—HOSPITAL—Shelby Co. voted $500,000 bonds for hospital. E. W. Hale, co. chn.

O., Ashtabula — COMMERCIAL and MARKET HOUSE—T. P. Fitzgerald & W. Johnson, Ashtabula, having plans prepared by McGarry & McGarry, 4614 Prospect Ave., Cleveland, 1 story, 62 x 225 ft., brick, steel and concrete commercial and market house. $150,000.

O., Canton — ARMORY — Chamber of Commerce, W. T. Kuhns, chn., 1419 Cleveland Ave., plans 2 story armory, between 6th and 9th Aves. S. W. $150,000.

O., Cleveland—APARTMENT—F. Stein, 2195 East 93rd St., having plans prepared by L. R. Walker, 1900 Euclid Bldg., 3 story and basement, 37 x 150 ft., brick and steel, Cornell Rd. $150,000.

O., Lakewood (Cleveland P. O.) — APARTMENT—M. Margolin, 4901 Woodland Ave., Cleveland, had plans prepared by M. Weiss, 617 Union Bldg., Cleveland, 3 story and basement, 94 x 102 ft., brick and timber, 15103 Detroit Ave. $150,000.

O., Lakewood (Cleveland P. O.)—CLUB HOUSE — Lakewood Elks Club, F. C. Meyers, chn. building comn., 14018 Detroit Ave., Cleveland, having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, 3 story, 124 x 220 ft., brick, steel and concrete addition, here. $300,000.

Ill., Chicago—APARTMENT—P. Klein, 110 North Dearborn St., having plans prepared by R. C. Ostergren, 155 North Clark St., 5 story and basement, 38 x 137 ft., rein.-con., brick and stone, plain foundation, 1432 West Dearborn St. $250,000.

Ill., Chicago—APARTMENT—S. J. Russel, 1454 East Marquette Rd., having plans prepared by Aman & Lilienthal, 64 West Randolph St., 2 story and basement, 80 x 127 ft., rein.-con., brick and stone, plain foundation, 1500 Marquette St. $150,000.

Ill., Chicago—APARTMENT—S. Olson, 3156 Sheridan Rd., having sketches made by Oman & Lilienthol, 64 West Randolph St., 3 story and basement, 65 x 169 ft., rein.-con., brick, stone and terra cotta, plain foundation, Dakin and Seminary Sts. $175,000.

Ill., Chicago — BANK — Allied Securities Co., 10 North Clark St., had plans prepared by H. J. Burns, 605 North Michigan Ave., 6 story and basement, 75 x 100 ft., rein.-con., brick and stone, Van Buren and Wood Sts. $350,000. K. M. Vitzthum & Co., 605 North Michigan Ave., engrs.

Ill., Chicago — HOSPITAL — Wesley Memorial Hospital, 2449 South Dearborn St., having plans prepared by Holabird & Roche, archts. and engrs.; 104 South Michigan Ave., 5 story and basement, 125 x 216 ft., rein.-con., brick and stone, plain foundation, Superior St. $750,000.

Ill., Chicago — HOSPITAL — Holabird & Roche, archts and engrs., 104 South Michigan Ave. soon lets contract 5 story and basement, 109 x 115 ft., rein.-con., brick and stone, Fullerton St., for Martha Wilson Memorial Hospital, 735 Fullerton Ave. $800,000.

Ill., Chicago—HOSPITAL—H. J. Gaul, archt. and engr., 228 East Superior St., prepared plans and takes bids about May 1, 6 story and basement, brick and steel, 4900 Thomas St., for St. Anns Hospital. $900,000.

Ill., Chicago — Y. M. C. A., c/o S. O. Houser, bus. mgr., 19 South La Salle St., having plans prepared by Berlin & Swern, archts. and engrs., 19 South LaSalle St., 3 story and basement, 100 x 150 ft., rein.-con., brick and stone, plain foundation, 91st and Houston Sts. $750,000.

Ill., Chicago — Y. M. C. A., c/o S. O. Houser, bus. mgr., 19 South La Salle St., having plans prepared by Berlin & Swern, 19 South La Salle St., 3 story and basement, 50 x 150 ft., 111th St. and Wabash Ave., and 3 story and basement, 90 x 150 ft., Irving Park and Kildard St., both rein.-con., brick and stone, plain foundations. $500,000 each.

Ill., Chicago — STORE and LOFT — Cooper, Winston & Manniene, 112 West Adams St., had plans prepared by A. L. Alschuler, engr. and archt., 28 East Jackson Blvd., 2 story and basement, 100 x 118 ft., rein.-con., brick and terra cotta, plain foundation, North State St. $150,000.

Buildings—Commercial (Continued)

Ill., Evanston—OFFICE and THEATRE—C. E. Elliott, 1 0 Sherman St., having plans prepared by J. E. Pridmore, 38 South Dearborn St., Chicago, 4 story and basement, 85 x 175 ft., rein.-con., brick and stone, Arrington St. $750,000.

Ill., Joliet — ORPHANAGE, etc. — E. Breilmaier & Sons, archts., 432 Bway., Milwaukee, Wis., soon take bids 3 story and basement, concrete and brick orphanage, boiler house and laundry, plain foundation, here, for Guardian Angel Orphanage. $400,000. Noted Nov. 27.

Wis., Milwaukee—HOSPITAL—Masonic Service Bureau, F. L. Wright, pres., 2424 Prairie St., plans fireproof hospital. $400,000. Engineer and architect not selected.

Kan., Ft. Scott—OFFICE—Western Auto Insurance Co., and Calhoun Dry Goods Co., having preliminary plans prepared by Holt, Price & Barnes, 800 Davidson Bldg., Kansas City, 5 story and basement, 75 x 120 ft., concrete, brick and terra cotta office building. $200,000.

Kan., Winfield—CITY HALL and AUDITORIUM—Election May 5, $175,000 bonds for city hall and auditorium.

S. D., Sioux Falls—THEATRE—Finkelstein & Ruben, 425 Loeb Arcade, Minneapolis, Minn., having plans prepared by Buechner & Orth, 500 Shubert Bldg., St. Paul, Minn., 2 story and basement, 72 x 150 ft., rein.-con., brick, tile and stone, here. $225,000.

Mo., Kansas City—APARTMENTS—C. O. Jones, 402 Continental Bldg., having plans prepared by J. F. Lauck, 1004 Orear-Leslie Bldg., 3 story and basement, 5 units, 40 x 60 ft., and 6 units 56 x 90 ft., rein.-con. and brick, etc., plain foundations, Ward Parkway and Roanoke St. $725,000.

Tex., Dallas—CLUB—Columbian Club, c/o H. Mallison, pres., 3033½ Park Row, and E. Sanger, chn. building comn., 1101 South Ervay St., plans new building. $250,000. Engineer and architect not selected.

Tex., Dallas—OFFICE—D. D. Swindle, archt., North Texas Bldg., making plans 15 story and basement, rein.-con., brick, steel and stone office building. $750,000. Owner's name withheld.

Tex., Dallas—STORE—Tiche-Goettinger Co., Dallas, plans 8 story and basement, 75 x 200 ft. department store, St. Paul and Main Sts . $1,200,000. Engineer and architect not selected.

Tex., Dallas — STORE and OFFICE — Volk Bros. Co., 1208 Elm St., L. Volk, pres., plans 100 x 200 ft. store and office building, St. Paul and Elm Sts. $800,000. Engineer and architect not selected.

Tex., Dallas — WAREHOUSE — Owner, c/o S. T. Morgan, 1917 Houston St., plans 4 story and basement, 600 ft. long, rein.-con. warehouse, plain foundation. $500,000.

Tex., Houston—THEATRE and OFFICE—J. Oppenheimer, A. Kronkosky & W. Eniston, c/o San Antonio Drug Co., 308 Market St., San Antonio, having plans prepared by Kelwood Co., Travis Bldg., San Antonio, and soon takes bids 6 story, 122 x 194 ft., rein.-con., brick, steel, stone and hollow tile, brick foundation, Main St. and McKinney Ave., here. $1,500,000.

Tex., Houston — WAREHOUSE — Terminal Warehouse Co. soon takes bids (2 units) 6 and 7 story, rein.-con., brick and steel, plain foundation, Main St. $3,100,000. Engineer and architect not announced.

Okla., Okemah—COURT HOUSE—Okfuskee Co. making preliminary plans 2 story and basement, 84 x 110 ft., rein.-con. and brick, plain foundation, Bway. $160,000. Engineer and architect not selected.

Okla., Oklahoma City—JAIL—Muskogee Co. having preliminary plans prepared probably 3 story, rein.-con., brick and stone, plain foundation. $250,000. C. L. Henson, comr. Engineer and architect not selected.

Okla., Oklahoma City—OFFICE—Oklahoma Savings & Loan Co., Amer. Natl. Bank Bldg., having preliminary plans prepared by Hawk & Parr, archts. and engrs., Cotton Exch. Bldg., 8 story and basement, rein.-con., brick and stone, plain foundation. $300,000.

Okla., Oklahoma City—STORE—Buick Motor Co., 504 North Bway., making preliminary plans 4 story and basement, 100 x 150 ft., rein.-con., plain foundation, Bway. $200,000. Engineer and architect not selected.

Ariz., Tucson—HOTEL—L. C. James, pres. Chamber of Commerce, plans Tourist Hotel, here. $300,000. Engineer and architect not selected.

Wash., Seattle — APARTMENT — Loyal Order of Moose having plans prepared by R. C. Stanley, Lumber Exch. Bldg., 4 story and basement, 120 x 120 ft., rein.-con., 8th and Union Sts. $400,000.

Calif., Altadena—HOME—Boys' & Girls' Aid Society, Pasadena, having plans prepared by M. Hunt, Hibernian Bldg., Los Angeles, group of hollow concrete buildings. $250,000.

Calif., Auburn — APARTMENT and THEATRE—F. W. Durfee, having plans prepared by L. F. Starks, Ochsner Bldg., Sacramento, 2 story, brick and rein.-con., High St. $150,000.

Calif., Bakersfield—HOTEL—Bakersfield Hotel Co., c/o H. L. Stevens Co., designers, 433 California St., San Francisco, having preliminary plans prepared 4 story, 150 x 160 ft., brick and rein.-con. hotel.

Calif., Compton—HOTEL—A. T. Williams, c/o W. Bruce, archt., Chapman Bldg., Los Angeles, had preliminary plans prepared 3 story, 120 x 225 ft., timber and stucco, Temple St. $150,000 or more.

Calif., Hollywood—LODGE—L. O. O. M., Hollywood Lodge, had preliminary plans prepared by L. Korn & L. Brun, Financial Center Bldg., Los Angeles, 3 story and basement, 100 x 140 ft. lodge, brick. $200,000.

Calif., Los Angeles—BANK and OFFICE—Security Trust & Savings Bank having plans prepared by J. and D. B. Parkinson, 420 Title Insurance Co., 2 story, 80 x 120 ft. bank and office building, Western Ave. and Beverly Dr. $150,000.

Calif., Los Angeles—CLUB—C. F. Whittlesey, archt., 6533 Hollywood Blvd., preparing preliminary plans 8 story, Class A construction, Santa Barbara Ave. $500,000. Owner's name withheld.

Calif., Los Angeles — DANCE HALL — A. McFadden Co., c/o S. F. Birds, archt., 425 Southwestern Ave., having plans prepared 2 story, 150 x 275 ft., timber and stucco, 3rd St. and Vermont Ave. $150,000. Work will probably be done by day labor under supervision of architect.

Calif., Los Angeles—HOTEL—Tifal & O'Connor, (owners and archts.) Grant Bldg., preparing plans 8 story and basement, 100 x 150 ft. hotel, 5th and Normandie Sts. $1,000,000.

Calif., Los Angeles—LOFT—Harris Newmark Estate, having preliminary plans prepared by Curlett & Beelman, 408 Union Bank Bldg., 12 story and basement, 140 x 160 ft., rein.-con., 9th and Los Angeles Sts. $650,000. Klein-Norton Co., 253 South Los Angeles St., lessee.

Calif., Los Angeles—STATE BUILDING—State plans election $1,250,000 bonds for office (state building), here.

Calif., Oroville—LODGE and OFFICE—B. P. O. E., plans lodge and office building. $150,000.

SUBWAY—PHILADELPHIA, PA.

Bids were opened by Dept. City Transit, March 17, for constructing portion of Broad St. Subway from Filbert to Stiles Sts., Contr. No. 110, (A) Frederick L. Cranford, Inc., Charles H. Locher, Winston & Co., Inc., 149 Remsen St., Brooklyn, N. Y., (lowest bidder); (B) Keystone State Construction Co., Franklin Bank Bldg., (awarded contract); (C) Rodgers & Hagerty, Inc., Grand Central Terminal, New York City, (highest bidder). The unit bids are as follows:

	A	B	C
Reading Railroad Crossing (lump sum)	$1,100,000 00	$930,000 00	$1,187,500 00
Subway Excavation:			
693,000 cu.yd. above elevation zero	11 00	10 80	12 00
29,000 cu.yd. below elevation zero	12 00	25 00	12 00
15,000 cu.yd. excavation for sewers, pipes and conduits	8 00	8 00	12 00
Underpinning:			
5,750 lin.ft. buildings 5 stories or less	75 00	90 00	75 00
1,050 lin.ft. buildings over 5 and less than 10 stories	100 00	180 00	100 00
500 lin.ft. buildings 10 stories or over	150 00	290 00	150 00
300 cu.yd. additional masonry for underpinning	40 00	40 00	50 00
City center building	25,000 00	76,000 00	60,000 00
Vault of Lyric Theatre Building	20,000 00	10,000 00	15,000 00
United Gas Improvement Company Building	50,000 00	84,000 00	50,000 00
Concrete Masonry:			
100 cu.yd. 1:1½:3	30 00	30 00	22 50
101,000 cu.yd. 1:2:4	22 00	22 00	22 50
15,000 cu.yd. 1:3:6	20 00	18 00	22 50
1,000 cu.yd. 1:4:8	20 00	12 00	22 50
2,000 sq.ft. reinforced concrete sheeting	2 00	1 00	1 50
2,000 bags cement grout	2 50	2 50	2 00
Granolithic Finish:			
9,600 sq.yd. without abrasive	3 00	1 50	1 50
3,700 sq.yd. with abrasive	3 00	2 00	3 00
1,000 cu.yd. brick masonry	50 00	40 00	50 00
200 cu.yd. hollow terra-cotta brick or tile masonry	50 00	40 00	50 00
1,500 sq.yd. vitrified brick sewer lining	8 00	6 00	7 00
400 cu.yd. rubble masonry in mortar	14 00	7 00	18 00
200 cu.yd. dry rubble masonry	12 00	5 00	12 00
100 sq.yd. granite block sewer lining	6 00	5 00	6 00
300 cu.yd. broken stone or pebbles for drains	5 00	3 00	4 00
Flagstones:			
1100 sq.ft. 2-in. thickness	60	2 50	90
500 sq.ft. 4-in. thickness	1 00	3 50	1 20
100 sq.ft. 6-in. thickness	3 50	5 00	3 00
Vitrified Clay Pipe:			
6,000 lin.ft. 4-in.	50	50	50
5,000 lin.ft. 5-in. or 6-in.	50	70	75
400 lin.ft. 8-in. 10-in.	1 25	80	1 20
10,000 lin.ft. 12-in.	1 50	2 30	1 80
14,000 lin.ft. 15-in.	2 20	3 00	3 00
500 lin.ft. 18-in.	4 50	3 50	4 25
100 lin.ft. 20-in.	5 50	4 50	5 50
200 lin.ft. 24-in.	8 00	6 00	7 00
Extra Heavy Cast-Iron Soil Pipe:			
100 lin.ft. 2-in.	1 00	70	1 20
1,000 lin.ft. 4-in.	1 10	1 00	1 80
100 lin.ft. 5-in.	1 50	1 50	2 50
2,000 lin.ft. 6-in.	1 50	1 75	3 00
200 lin.ft. 8-in.	3 00	2 50	3 50
100 lin.ft. 10-in.	4 00	3 00	4 50
100 lin.ft. 12-in.	5 00	4 00	6 00
50 building new manholes	400 00	300 00	400 00
250 vertical ft. building new wellholes	40 00	20 00	50 00
2 inlets No. 1	400 00	200 00	300 00
30 inlets No. 2	400 00	200 00	300 00
2 inlets No. 3	400 00	150 00	300 00
Taking Out and Rebuilding Inlets:			
2 inlets having standard pattern casting	125 00	150 00	120 00
26 inlets having old pattern casting to be replaced by standard pattern casting	250 00	250 00	250 00
60,000 sq.yd. asphalt mastic waterproofing	3 00	3 00	2 40
Fabric Waterproofing:			
200 sq.yd. 1-ply	1 00	1 00	1 20
5,000 sq.yd. 2-ply	1 75	1 50	2 40
100 sq.yd. 3-ply	2 00	2 00	3 60
100 sq.yd. 4-ply	3 00	2 50	5 00
100 sq.yd. 1-ply dry roofing felt	1 50	80	1 20
10 cu.yd. brick in waterproofing compound	75 00	80 00	60 00
3,000,000 lb. riveted structural steel	.0735	07	075
25,000,000 lb. steel beams and shapes	.0735	065	075
5,600 sq.ft. steel gratings and frames	3 50	3 00	4 00
7,400 lb. miscellaneous steel, ladders, stairs, plates	.14	.12	.25
250,000 lb. tie rods, bolts, nuts, washers, dowels and anchor bolts	.10	.10	.18
10,000 lb. steel wire lath and anchors	.40	.25	35
2,500,000 lb. steel reinforcing rods	.05	.08	06
100 net tons interlocking steel sheet piling	150 00	150 00	150 00
100 vert. ft. 12-in. steel pipe piles	10 00	8 00	12 00
1,000 vert. ft. 15-in. steel pipe piles	10 00	10 00	18 00
4,000 lb. wrought iron or steel pipe, any size, with fittings	.20	.10	.20
8 emergency exit covers	450 00	300 00	500 00

	A	B	C
60,000 lb. cast-iron frames and covers for manholes	.10	.10	.10
8,000 lb. miscellaneous iron castings other than manhole frames and covers per pound	.10	.10	.10
50 cesspools 10-in. grate top iron bell trap cesspools	25.00	10.00	12.00
200 thousand ft. b.m. yellow pine lumber	100.00	60.00	100.00
Cast-Iron Pipe, Furnished, any standard size:			
2,400 net tons bell and spigot straight	75.00	70.00	80.00
65 net tons bell and spigot specials	175.00	200.00	200.00
50 net tons flange high-pressure straight	150.00	100.00	100.00
5 net tons flange high-pressure specials	250.00	200.00	250.00
250 net tons universal high-pressure straight	125.00	100.00	100.00
10 net tons universal high-pressure specials	250.00	200.00	250.00
Laying Bell and Spigot Cast-Iron Pipe and Specials:			
100 lin.ft. 4-in.	1.00	.50	1.20
500 lin.ft. 6-in.	1.00	.70	1.50
200 lin.ft. 8-in.	2.50	.80	1.80
500 lin.ft. 10-in.	3.00	.80	2.10
900 lin.ft. 12-in.	3.00	1.20	2.40
100 lin.ft. 16-in.	4.00	1.20	3.00
100 lin.ft. 20-in.	4.00	2.20	3.50
100 lin.ft. 24-in.	4.00	3.00	4.25
100 lin.ft. 30-in.	4.00	4.00	5.50
8,000 lin.ft. 36-in.	4.00	5.50	6.50
1,600 lin.ft. 48-in.	5.00	8.00	9.50
Laying Flange High-Pressure Pipe and Specials:			
100 lin.ft. 8-in.	2.00	1.25	3.50
100 lin.ft. 12-in.	3.00	1.75	5.00
100 lin.ft. 16-in.	3.00	2.75	6.00
100 lin.ft. 20-in.	4.00	4.50	7.00
Laying "Universal" High-Pressure Pipe and Specials:			
100 lin.ft. 8-in.	2.00	1.25	3.50
100 lin.ft. 12-in.	2.50	1.75	5.00
100 lin.ft. 16-in.	3.00	2.75	6.00
1,000 lin.ft. 20-in.	3.00	4.50	7.00
Removing Cast-Iron Pipe:			
2,000 net tons bell and spigot straight and specials	20.00	20.00	30.00
20 net tons universal high-pressure	20.00	20.00	60.00
10 net tons flange high-pressure	20.00	20.00	60.00
Furnishing and Setting Bell End Water Gate Valves:			
2 4-in.	50.00	20.00	50.00
2 6-in.	75.00	60.00	80.00
2 8-in.	100.00	80.00	100.00
3 12-in.	150.00	120.00	160.00
2 16-in.	200.00	200.00	280.00
2 20-in.	300.00	350.00	425.00
2 24-in.	500.00	600.00	700.00
2 30-in.	1,000.00	1,300.00	1,300.00
2 36-in.	1,250.00	1,800.00	1,850.00
200 copper strainers	4.00	2.50	4.00
Terra-Cotta Ducts:			
105,000 duct ft. 3-in.	.30	.25	.30
400,000 duct ft. 3½-in.	.32	.25	.30
Fibre Conduit Ducts:			
105,000 duct ft. 3-in.	.30	.25	.25
400,000 duct ft. 3½-in.	.32	.25	.25
Electrical Conduits:			
2,000 lin.ft. ¾-in.	.60	.20	.30
550,000 lin.ft. 1-in.	.60	.30	.35
600 lin.ft. 1¼-in.	.70	.30	.50
7,000 lin.ft. 1½-in.	.80	.40	.55
250 lin.ft. 2-in.	1.50	.50	.70
125 lin.ft. 2½-in.	2.00	.75	1.10
1,000 lin.ft. 3½-in.	2.50	1.00	2.00
2,400 outlet boxes	2.00	2.00	1.50
90 pull boxes	3.00	3.00	3.00
350 reflector rings	15.00	10.00	12.00
Temporary Lighting System (lump sum)	7,500.00	10,000.00	5,000.00
1,000 sq.yd. temporary brick sidewalk paving	3.00	2.00	3.50
Temporary Granite Block Paving, Gravel Joints:			
55,000 sq.yd. for furnishing and laying new granite blocks	6.00	7.00	8.50
5,000 sq.yd. for relaying old granite blocks	5.00	1.00	3.50
Permanent Paving:			
5,000 sq.yd. sheet asphalt	4.50	4.50	5.00
100 sq.yd. bituminous concrete	4.50	2.50	5.00
100 sq.yd. reinforced concrete	5.00	3.00	5.00
1,000 sq.yd. smooth-dressed granite block	7.00	6.50	9.00
100 sq.yd. redressed granite block	6.00	4.50	7.00
300 sq.yd. vitrified block	6.00	4.50	7.00
100 sq.yd. wood block	6.00	4.50	7.00
Furnishing and Laying Curb:			
100 lin.ft. 6-in. straight granite curb	3.50	3.00	3.50
1,000 lin.ft. 8-in. straight granite curb	3.50	3.50	4.00
100 lin.ft. 6-in. curved granite curb	8.00	3.50	4.50
100 lin.ft. 8-in. curved granite curb	8.00	4.00	5.50
1,500 lin.ft. 8-in. steel edge concrete curb	2.50	2.00	3.50
13,000 lin.ft. resetting curb	2.00	1.00	1.20
Sidewalk Paving:			
13,000 sq.yd. new granolithic	3.00	3.00	3.00
100 sq.yd. new brick	3.00	2.00	3.50
5,600 sq.yd. laying flagstones	3.00	3.00	2.00
6,000 sq.yd. restoration of grass plots	2.00	2.00	2.00
1,000 sq.ft. vault lights	3.50	3.50	4.50
4,000 sq.ft. safety treads	3.00	2.50	3.00
$300,000 expenditure force account per cent added	15	30	15
Extended totals	$16,749,936	$16,863,437	$17,900,173

Buildings—Commercial (Continued)

Calif., Sacramento — CAPITOL — State plans election $1,250,000 bonds for completion of state capitol annex here.

Calif., San Francisco — MASONIC — Masonic Orders, Masonic Temple Bldg., plan 25 to 30 story organization building. $8,000,000-$10,000,000. Engineer and architect not selected.

BIDS DESIRED

N. H., Concord—BANK—May 4, by New Hampshire Savings Bank, 116 North Main St., 4 story and basement, 47 x 100 ft., brick and stone, North Main St. $200,000. J. B. Leland & Co., 41 Mt. Vernon St., Boston, Mass., archts. Noted Apr. 9.

Mass., Boston—HOME—Mount Pleasant Home, 57 Elm Hill Ave., taking bids 3 story and basement, 100,000 sq.ft. floor space, brick and limestone home for aged, plain foundation, South Huntington Ave. A. H. Bowditch, 44 Bromfield St., archt.

Mass., Boston—STORE and OFFICE—A. Carbone, c/o Mowll & Rand, archts., 21 School St., taking bids 6 story and basement, 10,000 sq.ft. floor space, rein.-con. and brick, Province St. To exceed $150,000. Noted Apr. 23.

Mass., Cambridge (Boston P. O.) — STORE and OFFICE—Albiani Lunch, 150 High St., Boston, taking bids 2 story and basement, 76 x 140 ft., brick, plain foundation, 552-560 Massachusetts Ave. $170,000. W. W. Drummey, 80 Boylston St., archts. Noted Apr. 23.

Mass., Lynn—HOSPITAL—Lynn Hospital, 528 Broad St., H. M. Hoague, pres., taking bids 4 story and basement, brick and stone hospital. $150,000. Kendall, Taylor Co., 142 Berkley St., Boston, archts. Noted Feb. 19.

Mass., Springfield—EXCHANGE—New England Telephone & Telegraph Co., Springfield, taking bids 3 story, brick addition, Worthington St. To exceed $150,000. R. C. Sturgis, 120 Boylston St., Boston, archt.

Mass., Worcester—BUSINESS—H. Steinberg, c/o E. W. Norton, archt., 44 Pearl St., taking bids 4 story, 70 x 100 ft., brick and terra cotta, Elm St. $150,000.

Mass., Worcester—STORE and OFFICE—Barnard Press, Monadnock St., taking bids 5 story and basement, brick, plain foundation, Mercantile and Front Sts. $175,000. E. T. Chapin, 340 Main St., archt. Noted Apr. 9.

R. I., Providence—HOSPITAL—May 1, by Miriam Hospital Corp., c/o Kendal Taylor Co., archts., 142 Berkley St., Boston, Mass., 4 story and basement, brick and stone addition, Parade St. $200,000. Noted Apr. 23.

N. J., Cape May—JAIL—May 6, by Bd. Freeholders Cape May Co., Court House, alterations and additions to jail; adv. E. N.-R. Apr. 30.

N. J., Pitman—THEATRE, STORES and APARTMENTS — May 5, by Magaziner, Eberhard & Harris, archts., 603 Chestnut St., Phila., Pa., 2 story, gallery and basement, 100 x 139 ft., brick and steel, plain foundation, here, for Pitman Realty Co., $150,000.

Pa., Bethlehem—BANK—May 7, by Ritter & Shay, archts., Packard Bldg., Phila., 1 story and basement, 60 x 130 ft., rein.-con., plain foundation, Broad and Guetter Sts., here, for Bethlehem Trust Co.

Pa., Hanover—HOSPITAL—May 5, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 3 story and basement 54 x 137 ft., rein.-con. and brick, plain foundation, Highland and Charles Sts., here, for Hanover General Hospital. $200,000.

Pa., York—BANK—May 12, by W. L. Stoddart, archt., 50 East 41st St., New York City, 1 story, basement and mezzanine, 50 x 115 ft., rein.-con. and brick, plain foundation, Market and Newberry Sts., here, for Western Nat'l Bank. $150,000.

Fla., Tampa—AUDITORIUM—May 5, by City Comn., municipal auditorium, $250,000. F. O. Adams, Jr., and F. J. Kennard & Son, Tampa, archts.

O., Cleveland—HOTEL—Cutler Turkish Bath Co., W. J. Cutler, pres., 41 Pub. Sq., taking bids 6 story and basement, 47 x 176 ft., brick, steel and concrete, 1112 Prospect Ave. $400,000. P. Matzinger & Lehman-Schmitt Co., Hunkin-Conkey Bldg., archts.

O., Dayton—COMMUNITY HOUSE, etc. —May 20, by W. F. Bennett, archt., Mutual Home Bldg., 2 story and basement, rein.-con. and limestone community house and Sunday school, plain foundation, Salem St., for Jewish K. K. B. Y., E. Rauh, Grafton Ave., pres. $250,000.

O., East Cleveland (Cleveland P. O.)—APARTMENT — Hertz Realty Co., 530 Leader-News Bldg., Cleveland, taking bids 3 story and basement, 47 x 111 ft., brick and timber, 814 Stanwood Rd., here. $150,000. M. Weis, 1836 Euclid Ave., Cleveland, archt.

Ill., Chicago—APARTMENT—W. C. Gordon, 6740 North West Highway, taking bids 3 story and basement, 140 x 150 ft., brick and stone, plain foundation, Olmstead and Overhill Sts. $150,000. A. Ruttenberg, 64 West Randolph St., archt.

Ill., Lisle — GYMNASIUM — Shattuck & Layer, engrs. and archts., 19 South La Salle St., taking bids 2 story and part basement, 124 x 160 ft., rein.-con., brick, steel and stone, concrete pile foundation, for St. Prodopuis College, c/o architects. $150,000.

Mich., Detroit — APARTMENT — B. C. Wetzel & Co., archts., 2317 Dime Bank Bldg., taking bids 2 story and basement, 85 x 120 ft., rein.-con. and brick, plain foundation, Gibson and Lincoln Aves. $200,000. Owner's name withheld.

Wis., Milwaukee—THEATRE, STORE and OFFICE—Dick & Bauer, archts., 811 State St., taking bids 2 story and basement, 86 x 88 ft., and 102 x 150 ft., brick, concrete and steel, plain foundation, Wells St., for Mal Investment Co., 376 East Water St. $500,000. Noted Feb. 19.

Calif., Los Angeles—STORE and OFFICE—Hohm Building Co., c/o A. C. Martin, archt., Higgins Bldg., taking bids 4 story, 65 x 155 ft. brick, 6th St. and Western Ave.

Calif., Los Angeles — STORE and OFFICE—L. A. Smith, archt., 3rd St. and Western Ave., taking bids two 2 story, 120 x 269 ft. and 120 x 120 ft., rein.-con. and brick, Vermont Ave., for Film Exchange Co. 200 Knickerbocker Ave. $200,000 or more.

Calif., Oakland — HOSPITAL — R. A. Herrold, archt., Forum Bldg., Sacramento, taking bids 5 story and basement, rein.-con., Webster and Summitt Sts., here, for Providence Hospital. $500,000. Noted Jan. 29.

Buildings—Commercial (Continued)

Calif., Redding — GARAGE — Mayo, Cowell & Bissell, archts., 21 South San Joaquin St., Stockton, taking bids 100 x 140 ft., brick and concrete garage, here, for J. D. Wease. $200,000.

Calif., Sacramento — DEPOT — Bliss & Faville, archts., Balboe Bldg., San Francisco, taking new bids rein.-con. passenger and freight depot, here, for Southern Pacific R.R. Co., 65 Market St., San Francisco. $300,000. Noted Apr. 2.

BIDS RECEIVED

N. Y., New York—HOUSE OF DETENTION—W. W. Mills, comr. Plant & Structures, Municipal Bldg., steel framework, foundation walls, column footing, etc. for womens court and detention house, 30th St. between 6th and 7th Aves., from Willetts Constr. Co., 280 Madison Ave., $145,700. Noted Apr. 16.

CONTRACTS AWARDED

N. Y., New York—OFFICE and STORE—V. Astor, 23 West 26th St., 15 story, brick, steel and stone, plain foundation, 33rd St. and 5th Ave., to Marc Eidlitz & Son, 30 East 42nd St.

N. Y., New York — OFFICE — Magoba Constr. Co., Inc., 103 Park Ave., will build brick, steel and stone, plain foundation, 52 West 37th St., by day labor. $800,000. Private plans.

N. Y., New York—SANITARIUM—H. M. Hays, 22 West 74th St., 9 story, brick, steel and stone, plain foundation, 168 West 76th St., to G. Richard Davis, 30 East 42nd St.

Pa., Chester — WAREHOUSE — W. E. Headley, 5th Upland Sts., 5 story and basement, 101 x 126 ft., rein.-con. and brick, plain foundation, to Chester Constr. Co., Crozer Bldg.

Md., Baltimore — EXCHANGE — McKenzie, Voorhees & Gmelin, archts., 1343 H St., Wash., D. C., 3 story and basement, 59 x 143 ft., brick and steel, plain foundation, 1915-33, Madison Ave., to J. H. Miller, Inc., Eutaw and Franklin Sts., for C. and P. Telephone Co., 5 Light St. $150,000.

Md., Baltimore—OFFICE and STORE—I. Silberstein, 402 St. Paul St., 2 story, 109 x 113 ft., brick and steel, plain foundation, Baltimore and Lloyd Sts., to Consolidated Eng. Co., 20 East Franklin St. $150,000. Noted Mar. 5.

Fla., St. Augustine — OFFICE — Florida East Coast Ry., St. Augustine, 4 story, rein.-con., steel, brick and terra cotta, to W. P. Thurston Co., Virginia Ry. & Power Bldg., Richmond, Va., approximately $200,000.

Tenn., Knoxville — Y. W. C. A., Clinch and Walnut Sts., W. J. Savage, chn. Building Comn., 4 story and basement, rein.-con. and brick building, incl. swimming pool, dormitories, etc., to Gervin & Gervin, Knoxville, $175,000. Noted Nov. 27.

O., Cincinnati—HOTEL—Royalton Realty Co., 42 Pickering Bldg., 7 story and basement, 80 x 90 ft., rein.-con. and brick, plain foundation, Garfield Pl., to Ferro Constr. Co., Elm St., $450,000.

O., Cleveland — COMMERCIAL and APARTMENT—S. Newman, 10710 Drexel Ave., 2 story and basement, 65 x 200 ft., brick and timber, Euclid and Wymore Aves., to J. Miller, 10819 Drexel Ave. Archts. est. $150,000.

O., Cleveland—STORE and APARTMENT—Coventry Leasehold Co., c/o H. Caplin, 3469 East 123rd St., 3 story and basement, 70 x 155 ft., brick, Lancashire and Coventry Rds., to B. Zuckerman, 11605 Kinsman Rd. Archts. est. $200,000. Noted Aug. 7.

O., Lakewood (Cleveland P. O.)—STORE and APARTMENT — H. A. Lattin, 310 Lakeside Ave. N. W., Cleveland, 3 story and basement, 60 x 128 ft., brick and timber, 14900 Detroit Ave., to J. E. Christian Co., 1307 St. Clair Ave., Cleveland. Archts. est. $150,000. Noted Apr. 16.

Wis., Madison — STORE, OFFICE and APARTMENT—O. Rennebohm, 1320 University Ave., 3 story and basement, 50 x 102 ft., rein.-con., brick and steel, plain foundation, University Ave., to J. H. Findorff, 601 West Wilson St. Archts. est. $150,000. Noted Apr. 16.

Wis., Milwaukee—APARTMENT—Dorilton Arms Co., c/o A. C. Runzler, archt., 144 Oneida St., 3 story and basement, 50 x 132 ft., brick and tile, plain foundation, Royale Pl., to Hercules Constr. Co., 114 Grand Ave.; masonry, concrete work, to A. Nuedling & Son, 1124 46th St. Archts. est. $165,000.

Wis., Milwaukee — APARTMENT — Solidity Realty Co., c/o C. J. Keller & Son, archt., 432 Brdway., 4 story and basement, 57 x 120 ft., brick and concrete, plain foundation Wells St., to H. Schmitt & Son, 430 Farwell Ave. Archt. est. $160,000.

Wis., Wauwatosa — CLUBHOUSE—Blue Mound Country Club, G. Gregg, secy., 437 East Water St., Milwaukee, 2 story and basement, 255 ft. long, rein.-con. and brick, plain foundation, Burleigh Rd., to W. W. Oeflein, 86 Michigan St., Milwaukee. $150,000. Noted Mar. 19.

Ia., Sioux City—APARTMENT—Sioux Apartment Hotel Co., c/o A. Sanford, mgr., 307 Francis Bldg., general contract 6 story and basement, rein.-con., brick and stone, 21st and Summit Sts., to W. A. Klinger, Warnock Bldg. Archts. est. $600,000.

Kan., Topeka—HOTEL—A. Jacobson, 5th and Kansas Aves., general contract 4 story and basement, 45 x 150 ft., rein.-con., brick and stone, 5th and Kansas Sts., to Swenson Constr. Co., Shubert Theatre Bldg., Kansas City. $115,000.

Tex., Corpus Christi — BANK and OFFICE—City Natl. Bank, 6 story and part basement, rein.-con., brick, stone and steel addition, plain foundation, to J. DePuy, Bedell Bldg., San Antonio, $180,000. Noted Feb. 27.

Tex., Donna — EXPOSITION—Intercontinental Fair Assn., (1st unit) 2 story, star shaped building, incl. five 60 x 130 ft. wings, rein.-con. and hollow tile, to C. W. Moore, 609 West 16th St., Austin, and R. Moore, Donna, $300,000.

Wash., Seattle — APARTMENT — C. S. Leede, Cobb Bldg., Seattle, 6 story and basement, 120 x 120 ft., rein.-con. and terra cotta, Boren and Union Aves., to T. A. Lofthus, Leary Bldg., $325,000.

Calif., Los Angeles — CLUB — Masonic Club, 4 story and basement, 70 x 150 ft., rein.-con., Grand Ave., to H. Baruch, 441 I. W. Hellman Bldg., $155,000.

Calif., Los Angeles—HALL—Los Angeles Co., general contract Patriotic Hall, 5 story and basement, brick, rein.-con. and hollow tile, to C. T. McGrew & Sons, 1345 West Ocean Blvd., Long Beach, $160,163. Noted Apr. 9.

Calif., Los Angeles — HOTEL — P. A. Weeger, 3306 West 6th St., will build 4 story and basement, 59 x 123 ft., brick and timber, 608 South St. Andrews Pl., by day labor. $185,000. Gogerty & Weyl, 816 Guarantee Bldg., archts.

Calif., Los Angeles — HOTEL — J. W. Weitzman, 1049 South Hill St., will build 5 story and basement, 60 x 150 ft., brick and steel, Beacon Ave., by day labor. $150,000.

Calif., Los Angeles—HOTEL and STORE—Business Development Co., Merchants Natl. Bank Bldg., 6 story and basement, rein.-con., Galdys and 6th Sts., to H. H. Hinds, 351 South Hoover St., approximately $275,000. Noted Mar. 2.

Calif., Los Angeles — LOFT — B. M. Precita, archt., and E. R. Newcomb, engr., Pantages Theatre Bldg., 12 story and basement, 48 x 160 ft. loft, South Los Angeles St., to J. Simpson Co., 913 Pantages Theatre Bldg., for A. S. Theberge, 715 Camden Dr., Beverly Hills. $192,000. Noted Mar. 12.

Calif., Los Angeles — OFFICE and STORE—Commercial Building & Finance Corp., c/o Morgan, Walls & Clements, archts., Van Nuys Bldg., 2 story, 180 x 300 ft., brick, La Brae and Santa Monica Blvds., to Simpson Constr. Co., 6331 Hollywood Blvd. $150,000. Noted Feb. 12.

Calif., Los Angeles—STORE and LOFT—Harris & Frank, 443 South Spring St., 8 story and basement, 60 x 150 ft., rein.-con., Hill St., to J. V. McNeill, 5860 South Park Ave., $285,500.

Calif., San Francisco—APARTMENT—Post & Leavenworth Realty Co., c/o S. Schaittacher, archt., 233 Post St., 6 story and basement, rein.-con., Post St., to G. P. W. Jensen, 320 Market St., $155,000 to $175,000.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Brighton (Boston P. O.) — SCHOOL—Schoolhouse Dept., Boston, J. P. Glynn, chn., plans 2 story and basement, brick school, Bennett Dist., here. $150,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—CHAPEL—Harvard University plans new chapel on site of Old Appleton Chapel. $1,000,000. Engineer and architect not selected.

Mass., Charlestown (Boston P. O.) — SCHOOL — School House Dept., Boston, plans school in Warren Bunker Hill Dist., here. $150,000. Engineer and architect not selected.

Mass., Lowell—CHURCH—Greek Orthodox Society rejected bids 1 story and basement, 90 x 95 ft., brick and stone, plain foundation, Clark St. and Hancock Ave. $150,000. Will readvertise. Ashton, Huntress & Alter, 479 Essex St., Lawrence, archts. Noted Apr. 16.

Mass., Mattapan (Boston P. O.) — CHURCH and SUNDAY SCHOOL—Mattapan Methodist Episcopal Church, T. Hancock, pastor, having plans prepared by Woodbury & Stuart, 581 Boylston St., Boston, 1 story, 40 x 85 ft., with 35 x 60 ft. ell, rein.-con. and stone, plain foundation, Blue Hill Parkway. $150,000. Noted July 17.

Mass., Roxbury (Boston P. O.) — SCHOOL—School House Dept., Boston, J. P. Glynn, chn., having sketches made by H. H. Atwood, 61 Alban St., Dorchester, 2 story and basement, brick and stone school, here. $1,480,000.

Mass., Saugus—SCHOOL—Town, C. W. Hanson, chn. com., 128 Essex St., plans 2 story and basement, brick and stone school, $150,000. Engineer and architect not selected.

Mass., West Roxbury (Boston P. O.)—SCHOOL—Schoolhouse Dept., Boston, plans 2 story and basement, brick and stone, in Robert Gould Shaw Dist., here. $246,000. Engineer and architect not selected.

R. I., Warren—SCHOOL—Town, H. DeWolf, chn. building comn., having plans prepared by A. H. Hume, 332 Main St., Pawtucket, 2 story and basement, brick and steel school. $150,000.

La., Jennings—SCHOOLS—Election June 9, $600,000 bonds, new schools, for Bd. Educ. Jefferson Parish.

Tenn., Bristol — SCHOOL and FIRE HALL—Voted $150,000 bonds, for schools and $50,000 bonds for fire hall. Noted Feb. 19.

Tenn., Knoxville — SCHOOLS — Election May 15, $2,225,000 bonds for new schools, etc.

Tenn., Nashville—COLLEGE—Southern Y. M. C. A. Training College, Wesley Hall, W. D. Weatherford, pres., raising $500,000 funds for new building.

O., Cleveland—CHURCH, etc.—St. Pauls Episcopal Church, W. R. Breed, pastor, 4108 Euclid Ave., having plans prepared by Walker & Weeks, 1900 Euclid Bldg., 1 and 2 story, brick, steel and concrete church, parish house and rectory, Coventry Rd. and Fairmount Blvd. $400,000.

O., Tiffin—HALL—Heidelberg University, Tiffin, soon lets contract France Hall, 3 story and basement, brick, steel and concrete. To exceed $150,000. Miller, Fullenweider & Dowling, 646 North Michigan Ave., Chicago, Ill., archts.

Wis., Madison—CHURCH, etc.—Wisconsin Branch Amer. Lutheran Society, R. A. Pieper, secy., Clintonville, having plans prepared by H. C. Haueser, Milwaukee St., Milwaukee, 2 story, brick and rein.-con. church, chapel and community house, Fetch St. $150,000.

Ill., Chicago—CHURCH—Fourth Congregational Church, c/o W. C. Jones, archt. and engr., 19 South La Salle St., having plans prepared 1 story and basement, 75 x 100 ft., rein.-con., brick and stone, plain foundation, Talman St. and Logan Blvd. $150,000.

Ill., Chicago — COMMUNITY — Jackson Boulevard Christian Church, 2446 Jackson Blvd., having plans prepared by W. C. Jones, engr. and archt., 19 South La Salle St., 4 story and basement, 75 x 100 ft., rein.-con., brick and stone, plain foundation, Jackson and Western Aves. $200,000.

Ill., Glen Ellyn — SCHOOL — Bd. Educ. Dist. 89, J. Wagner, pres., having plans prepared by F. G. Walker, 717 Forest Ave., 2 story and basement, 54 x 70 ft., rein.-con., brick and stone, plain foundation $150,000.

Ill., Harvey—HIGH SCHOOL—Bd. Educ., G. N. Burnett, 15544 Loomis St., having plans prepared by Chatten & Hammond, 160 North La Salle St., Chicago, 2 story and basement, 190 x 200 ft., rein.-con., brick, steel and stone, plain foundation, 151st and Columbia Sts. $350,000. F. L. Randell, 160 North La Salle St., Chicago, engr.

Tex., Amarillo—CHURCH—Central Presbyterian Congregation, R. T. Thomsen, pastor, plans church, 10th and Taylor Sts. $200,000. Engineer and architect not selected.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ. had plans prepared by J. C. Austin & F. M. Ashley, Chamber of Commerce Bldg., and soon takes bids general construction 2 story, 69 x 146 ft., brick high school, 4066 West 17th St. $345,000.

Calif., Richmond — HIGH SCHOOL — Plans election $150,000 or more bonds for high school, 23rd St. A. C. Faris, city clk.

Calif., San Francisco—HIGH SCHOOL—City and San Francisco Co., having plans prepared by J. Reid, City Hall, probably rein.-con. school, Laguna, Webster, Chestnut and Bay Sts. $1,200,000.

Calif., Santa Monica — SCHOOL — City having preliminary plans prepared by F. D. Rutherford, Mills-Fraser Bldg., timber, 10th St. $150,000.

Calif., Wilmington—HIGH SCHOOL—Bd. Educ. had plans prepared by J. C. Austin & F. M. Ashley, Chamber of Commerce

Buildings, Educational, Religious (Cont.)

Bldg., and soon takes bids 3 story, 248 x 288 ft., brick and concrete high school and shop, 1500 Canal Ave. $385,000. Noted Dec. 4.

BIDS DESIRED

Me., **Fairfield**—HIGH SCHOOL—Town, R. A. Jewell, chn. building comn., taking bids 2 story and basement, brick and stone high school. $150,000. Miller & Mayo, 465 Congress St., Portland, archts.

Mass., Chelmsford—SCHOOL—School Bd. taking bids 2 story and basement, brick school. $150,000. H. P. Graves, 40 Middlesex St., Lowell, archt. Noted Dec. 4.

Mass., Danvers — REFECTORY — St. Johns Prep. School taking bids 2 story and basement, 80 x 182 ft., brick and Indiana limestone, plain foundation. $200,000. M. Sullivan, 100 Boylston St., Boston, archt.

Mass., Worcester—SCHOOL—City, J. B. Moss, chn. com., taking bids 5 story and basement, 52 x 180 ft., brick and steel addition to Boys Trade School. $250,000. L. W. Briggs, 314 Main St., archt. Noted Mar. 19.

Conn., Ridgefield—HIGH SCHOOL—May 2, by School Com., 2 story and basement, 30 x 125 ft., brick and steel addition. $150,000. Sunderland & Watson, 248 Main St., Danbury, archt. Noted Apr. 16.

Pa., West Chester — AUDITORIUM — May 7, by Westchester Normal School, G. M. Phillips Memorial Auditorium, 1 and 2 story and basement, 64 x 162 ft., rein.-con., stone and steel, plain foundation. $300,000. Price & Walton, 119 South 4th St., Phila., archts. Noted Apr. 16.

Miss., Jackson—CHURCH—May 9 (extended date), by N. W. Overstreet, archt., Jackson, fireproof church, for First Baptist Church. $350,000. Noted Apr. 16.

O., Lorain — CHURCH and SUNDAY SCHOOL—First Congregational Church, L. C. Grant, pastor, 433 Washington St., taking bids 1 story and basement, 80 x 125 ft., brick, stone and steel church and Sunday school. $160,000. W. H. Nicklas, 1227 Prospect Ave., Cleveland, archt. Noted Nov. 27.

Mich., Muskegon—SCHOOL—May 5, by M. A. Rockenbach, clk. Bd. Educ., Hackley School Bldg., 2 story and basement, rein.-con., brick and steel, plain foundation, Nelson School site. $150,000 . Turner & Thebaud, Michigan Trust Bldg., Grand Rapids, archts.

Mich., Newago—HIGH SCHOOL—May 5, by C. R. Walcott, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel high school, plain foundation. $150,000. Turner & Thebaud, Michigan Trust Bldg., Grand Rapids, archts.

Ill., Chicago—CHURCH—J. C. Llewellyn, archt. and engr., 39 South Dearborn St., taking bids 3 story and basement, 90 x 125 ft., rein.-con., brick and stone, plain foundation, 64th and Stewart Sts., for Englewood Baptist Church, 6248 Stewart Ave. $150,000.

Ill., Chicago—SCHOOLS—May 5, by Bd. Educ., J. C. Byrnes, bus. mgr., 650 South Clark St., 2 story and basement, rein.-con., brick and stone, plain foundation, 114th and Stewart Sts. $400,000. J. C. Christensen, 650 South Clark St., archt. Noted Dec. 25.

Ill., Glen Ellyn—SCHOOL—May 4, by L. R. Christie, archt., 111 West Jackson Blvd., 2 story and basement, 66 x 81 ft., rein.-con. brick and stone, plain foundation, for Bd. Educ. Dist. 41, B. F. March. 140 West Dearborn St., Chicago, secy.

Minn., Minneapolis—SCHOOL—May 8, by Bd. Educ., City Hall, 3 story and basement, rein.-con., brick, tile and stone addition Spruce Pl. and 14th St. Bureau of Buildings, Div. of Design & Inspection, archts. Noted Dec. 4.

Tex., Austin—RECITATION—May 19, by University of Texas, E. J. Mathews, secy. Bd. Regents, 3 story and basement, 83 x 154 ft., rein.-con., brick and stone, on campus. $350,000. H. M. Greene Co., North Texas Bldg., Dallas, archt. Noted Jan. 1.

Tex., Dallas—CHURCH—R. H. Hunt Co., archts., Southwestern Life Bldg., taking bids 2 story and basement, 160 x 232 ft., rein.-con., brick, steel and stone, plain foundation, Ross and Harwood Sts., for First Methodist Congregation, c/o M. C. Cameron, 3800 Stratford St.

Tex., Hull—SCHOOLS—May 27, by Hull Independent School Dist., Liberty Co., constructing school buildings. $197,000. W. C. Morgan, Box 186, dist. bus. agt.

BIDS RECEIVED

Mass., Roxbury (Boston P. O.) — SCHOOL—Schoolhouse Dist. Boston, Apr. 17, 3 story and basement, 50 x 120 ft., brick and stone addition to Sherwin Dist. School, plain foundation, from J. Bowen Co., 184 Dudley St., Roxbury, $326,302.

O., Euclid—SCHOOLS—Bd. Educ., J. B. Clark, clk., 1550 Chardon Rd., 4 school additions and 1 new grade school, each 1 and 2 story, brick, steel and concrete, from J. H. Moore, 18,112 Landsee Rd., Cleveland, $329,987; 4 buildings from W. F. Hendrich Co., 2777 East 52rd St., Cleveland, $229,109; 1 building, from C. Peterson Constr. Co., 4500 Euclid Ave., Cleveland, $95,485. Noted Mar. 19.

CONTRACTS AWARDED

Mass., Arlington (Boston P. O.)—SCHOOL—Bd. Educ., 2 story and basement, 80 x 155 ft., brick and stone Lake St., to J. P. Keating, 80 Boylston St., Boston, $129,500; heating system, to Huey Bros., 85 Purchase St., Boston, $22,217. Noted Apr. 9.

Mass., North Cambridge (mail Cambridge)—CONVENT—St. John's Parish, J. T. Kelly, pastor, Hollis St., 3 story and basement, brick addition, Ringe Ave., to P. F. Haley, 22 Church St., Cambridge. Archts. est. to exceed $150,000.

Mass., Swampscott — CHURCH — First Congregational Church, 1 story and basement, 60 x 100 ft., brick and stone, Burrill St., to L. R. Porter, 6 New Derby St., Salem. Archts. est. $150,000. Noted Apr. 9.

R. I., Providence — SCHOOL — Brown University, Prospect St., 2 story and basement, brick and steel, Manning St., to C. B. McQuire Co., 507 Grosvenor Bldg. Archts. est. $170,000. Noted Apr. 23.

N. J., Englewood — PARISH HOUSE — Englewood Presbyterian Church, 3 story and basement, stone and stucco, to J. L. Bried, Booth Ave. Archts. est. $150,000. Noted Apr. 9.

Ala., Ensley—SCHOOL—School Bd. Jefferson Co., 3 story, 150 x 300 ft. school, to W. L. Coston, Bessemer, $260,000.

O., Cleveland Heights (Warrensville P. O.)—HIGH SCHOOL—Bd. Educ., W. G. Nesbit, dir., 1805 Lee Rd., Cleveland, 3 story and basement, brick, steel and concrete, Cedar and Lee Rds., here, to Schirmer-O'Hara Co., 1720 Euclid Ave., Cleveland, $1,035,252. Noted Apr. 16.

Wis., Burlington — HIGH SCHOOL — St. Mary's Congregation, J. Van Treeck, pastor, 2 story and basement, 62 x 100 ft., brick and tile, plain foundation, to Whitewater Bridge Co., Whitewater. Archts. est. $200,000.

Ia., Des Moines—SCHOOLS—Bd. Educ., G. L. Garton, secy., general contract Howe School addition and Rice School addition, to Garmer-Giles Co., 519 14th St., $54,777 and $52,939 respectively; Hubbell School addition, to Des Moines Constr. Co., 1432 46th St., $46,717. Noted Apr. 23.

Ia., Iowa City—MEDICAL LABORATORY—State Bd. Educ., Des Moines, general contract 3 story and basement, 210 x 316 ft., rein.-con., brick, steel and stone, campus, here, to Trapager Constr. Co., Albert Lea, Minn., $502,135. Noted Mar. 26.

Mo., Kansas City—HIGH SCHOOL—Bd. Educ., Public Library Bldg., general contract Junior High School, 3 story and basement, 27,000 sq.ft. floor space, concrete plain foundation, Independence Ave. and Chelsea St. to Patti-Moore Constr. Co., 411 Jenkins Bldg., $332,900, heating and plumbing, to M. D. Woodling Heating & Ventilating Co., 1227 Wyandotte St., $67,756. Noted Feb. 26.

Tex., Houston — HIGH SCHOOLS — Bd. Educ., H. L. Hills, bus. mgr., general contract 2 Junior High Schools, each 3 story, rein.-con., brick, steel and stone, 1 at Eastwood addition, to C. Curtis, 200 Preston Ave., $333,552; other at Norhill addition, to C. W. Raper & Son, 1709 Yale St., $337,400. Bids for sub-contracts about May 1. Noted Feb. 26.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., Le Conte School, to Anderson & Ringrose, 320 Market St., for City & San Francisco Co. $259,860. Noted Apr. 16.

Federal Government Work

PROPOSED WORK

Del., Wilmington—Bridges—U. S. Engineer Office, War Dept., Wash., D. C., rejected bids Mar. 20, 2 highway bridges across Chesapeake and Delaware Canal, here. Noted Mar. 5.

D. C., Wash.—Superstructure of Filtration Plant—U. S. Engineer Office, Old Land Office Bldg., 8th and E Sts. N. W., takes bids about May 1, superstructure for filtration plant. $1,000,000. M. H. Blake, archt., and D. M. Radcliffe, engr., both at Room 242, Old Land Office Bldg.

La., New Orleans — Levee Work — U. S. Engineer Office, War Dept., Wash., D. C., rejected bids levee work in Caenarvon Levee, in Lake Borgne Dist., here.

H. T., Pearl Harbor—Accessories House —Spec. 5097—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids marine railway accessories house, here.

BIDS DESIRED

R. I., Melville — Chimney — May 13, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick chimney, here. Noted Apr. 9.

N. J., Oceanport — Quarters — May 21, by Constructing Quartermaster, Camp Alfred Vail, 2 sets of officers quarters, adv. E. N.-R. Apr. 30.

S. C., Charleston—Dredging—May 4, by U. S. Engineer Office, War Dept., Wash., D. C., dredging 17,000 cu.yd. in Charleston Harbor at upper end of Drum Island, here. Noted Apr. 2.

Fla., Lake City—Hospital—May 26, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., mess hall, kitchen, garage, etc., at Hospital 63, here; adv. E. N.-R. Apr. 30.

Ala., Florence—Transmission Line—May 4, by U. S. Engineer Office, War Dept., Wash., D. C., high tension transmission line from Wilson Dam to U. S. Nitrate Plant 2, here.

Tenn., Memphis—Brush and Poles—May 20, by U. S. Engineer Office, War Dept., Wash., D. C., 65,000 cords brush and poles, here.

Ky., Louisville—Steel, Castings, etc.—May 15, by U. S. Engineer Office, P. O. Box 72, steel, castings, etc., for Lock 53, Ohio River; adv. E. N.-R. Apr. 30.

Mich., Detroit—Dike—May 22, by U. S. Engineer Office, repairing center dike, St. Clair Flats Canal; adv. E. N.-R. Apr. 30.

Colorado—Road—May 6, by J. W. Johnson, dist. engr. Bureau Pub. Rds., 301 Custom House Bldg., Denver, grading Cumbres Pass-Natl. Forest Rd.

Wash., Aberdeen—Post Office—May 19, by Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here.

BIDS RECEIVED

Mass., Northampton—Recreation—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., Apr. 21, recreation building at U. S. Veterans Hospital, here, from D. A. Sullivan & Sons, Northampton, (1) $107,429 (2) $19,530 (3) $213, earth excav. $1.50, rock excav. $8, earth fill $2.50, type A concrete $21, type B concrete $23, reinforcing steel $90. Noted Mar. 26.

Ala., Florence — Cylinder Valves, etc. — U. S. Engineer Office, 4 sets cylinder valves, at Lock 1, from Hardie Tynes Mfg. Co., 800 North 28th St., Birmingham, $12,869.

Ala., Florence—Roofing—U. S. Engineer Office, War Dept., Apr. 7, built up bituminous roofing for generator lead tower, switchboard and oil circuit breaker buildings, and on certain portions of generator lead gallery, from Hinkle Bros. Co., 2416 Ave. E., Birmingham, $18,389. Noted Apr. 2.

Wis., Milwaukee—Tug—U. S. Engineer Office, Federal Bldg., Apr. 14, steel side wheel tug, from Marine Iron & Shipbuilding Co., foot 11th Ave. W., Duluth, Minn., $61,175. Noted Mar. 19.

Nevada—Roads—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Calif., paving 5.75 mi. Grimes Sect., Austin-East Natl. Forest Highway, Lander Co., here, from A. D. Drumm, Jr., Fallon, $35,742; 2 mi. grading and 19.46 mi. gravel surfacing Austin-West Natl. Highway, Lander Co., here, from K. Hodgman, Reno, $74,809. Noted Apr. 9.

California—Bridge—C. H. Sweetser, dist. engr. Bureau Pub. Rds., 9 Main St., San Francisco, bridge over Salmon River, near Oak Flat, from Mercer-Fraser Co., Eureka, $19,924. Noted Apr. 16.

California—Roads—G. E. Goodwin, ch. civil engr., Yosemite Natl. Park, Yosemite, Apr. 10, paving 7.75 mi. El Portal Rd. and 13 mi. Valley roads, (1) asphaltic concrete (2) 5 in. concrete, (3) 6 in. concrete, from V. R. Dennis Constr. Co., 603 Bryte Bldg., Sacramento (1) $335,805; from Galbraith & Janes, P. O. Box 537, Napa, (2) $498,231 (3) $570,007.

CONTRACTS AWARDED

Mass., South Boston—Capstans—Spec. 5069—Bureau Yards & Docks, Navy Dept., Wash., D. C., capstans, pits, bollard foundations and piers, here, to Rendle Corp., 271 Marginal St., Chelsea, (1) $14,350 (2) $160. Noted Apr. 16.

Pa., Phila.—Pipe Line—U. S. Engineer Office, War Dept., Wash., D. C. 20 in. pipe line, here, to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $720,000. Noted Apr. 2.

La., New Orleans—Levee Work—U. S. Engineer Office, War Dept., Wash., D. C., levee work in Lower Tensas Levee Dist., here, to H. T. Van Fossen, Lake Providence, Bondinart Levee $8,670, to T. W. Roach, Memphis, Tenn., Helena Concordia Levee $118,150, Bougere Middle Levee $374,000; in Atchafalaya Levee Dist., to O. O. Ogden, Roumain Bldg., Baton Rouge, New Hope Levee $105,600, to D. B. Hearin,

Federal Government Work (Continued)

Baton Rouge, Tennessee Levee $36,731, to Dameron & Kenyon, Baton Rouge, Catherine Levee $39,200; in Barataria Levee Dist., to H. A. Schoenberger, Triumph, Belle Chasse Levee $7,800, to Onion & Grau, New Orleans, Socola Levee $2,856, Home Place Levee $3,150, to P. M. Adams, Point A la Hache, Amoretti Levee $7,013; in Atchafalaya Levee Dist., to Lower Coast Constr. Co., Godchaux Bldg., White Castle Levee $4,500, Derr Range Levee $8,100, Ormond Levee $8,450, and Red Church Levee $6,500, latter 2 levees in Pontchartrain Levee Dist. Noted Mar. 26.

Tenn., Memphis—Levee Work—U. S. Engineer Office, War Dept., Wash., D. C., levee work in Lower St. Francis Levee Dist., here, to Lawrance Bros. & Co., Memphis, $18,480.

Tex., Galveston — Dredging — U. S. Engineer Office, dredging Sabine Neches Waterway, 1,500,000 cu.yd. excav., to Reynolds Dredging Co. Inc., 832 Maison Blanche Bldg., New Orleans, La., $0.094 per cu.yd. Noted Mar. 5.

Cuba, Guantanamo—Water Tank—Spec. 5006—Bureau Yards & Docks, Navy Dept., Wash., D. C., steel water tank, here, to Wickes Constr. Co., 1441 Bluff St., Des Moines, Ia., $4,974 (120 days). Noted Apr. 23.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

590—Snow Storm Silver Lead Co., 922 Old Natl. Bank Bldg., Spokane, Wash.—Wants license for diversion dam with conduit and power house in Callahan Creek, near Troy, Lincoln Co., Mont.

591—W. W. Cunningham, Mono Lake, Calif.—Wants license for small 40 hp. development in Thompson Creek, Mono Co.

592—H. W. Coe, 516 Selling Bldg., Portland, Ore.—Wants preliminary permit for storage dam and reservoir about 7 mi. westerly from Spirit Lake in Toutle River, Skamania and Cowlitz Counties, Wash.

593—J. W. Preston, Jr., 350 Post St., San Francisco, Calif.—Wants preliminary permit for diversion of waters between forks of Mokelumne and North Fork Calaveras with McCarty reservoir on latter, and Bear Creek reservoir on middle fork Mokelumne, and 3 power houses on south and middle forks Mokelumne and north fork Calaveras, Calaveras Co.

594—J. A. Shafer, 1008 Odd Fellows Bldg., Indianapolis, Ind. — Wants preliminary permit 2 dams 50 ft. high, one 1½ mi. above Doniphan and other about 4 mi. below Chilton, in Current River, Ripley and Carter Counties, Mo.

Unclassified

PROPOSED WORK

Gas Distribution System—Pineville, La.—Soon takes bids gas distribution system. $25,000 bonds sold.

Power Line—Chattanooga, Tenn.—Tennessee Power Co., E. D. Reed, supt., 317 Walnut St., plans underground power lines in business section. $54,000.

Police Alarm System, etc. — Knoxville, Tenn.—City Council appropriated $55,000, equipping police postal box alarm system, and $10,000, installing traffic light system. Brownlow, mayor.

Refrigeration System—Knoxville, Tenn.—City Council appropriated $30,000, refrigeration system for city market. L. Brownlow, mayor.

Foundation — Cleveland O. — Cleveland Union Terminal Co., Marshall Bldg., had plans prepared by H. D. Jonett, archt. and engr., Ulmer Bldg., Cleveland, 100 x 100 ft. rein.-con. foundation 100 ft. deep, for center tower of new Union Depot, Public Sq. $360,000.

Lighting System—Cleveland, O.—City, H. Wright, dir. Pub. Utilities, City Hall, having preliminary plans prepared by C. G. Beckwith, engr. and archt., City Hall, lighting system extensions. $300,000.

Grand Stand and Race Track—San Antonio, Tex.—International Exposition, W. A. Wurzbach, pres., plans rein.-con. grandstand at Exposition site, etc. $30,000 or more. $500,000 funds being raised for entire International Exposition project.

Golf Course — Byron, Calif. — Byron Springs Golf Club, Byron Hot Springs, plans 150 acre golf course, clubhouse and water system, here. To exceed $100,000.

Gas Generator—Oakland, Calif.—Pacific Gas & Electric Co., 455 Sutter St., San Francisco, plans 5,000,000 cu.ft. gas generator, Market St. Private plans.

Drilling for Gas—Chatham, Ont.—Union Natural Gas Co., Chatham, plans drilling for gas in Dawn (Dresden), Dover (Chatham) and Tilbury (Tilbury) Twps. $100,000. S. A. Morse, c/o owner, engr.

Bulkhead — Toronto, Ont. — Harbor Comrs., Harbor Bldg., plans concrete bulkhead on piles, in harbor, from Scott to Cherry Sts. $350,000. J. R. Wainwright, Harbor Bldg., engr.

BIDS DESIRED

Borings — New York — May 8, by Bd. Transportation, 49 Lafayette St., New York City, land and river borings in East River from Wall St. (Manhattan) to Cranberry St. (Brooklyn) Route 101, from Rutgers St. (Manhattan) to Jay St. (Brooklyn) Route 103, from East 53rd St. (Manhattan) across Welfare Island to Nott Ave. (Queens) Route 104, Newtown Creek at Van Alst Ave. (Queens) Route 107-E.

Fire Alarm System—Ogdensburg N. Y.—May 27, by State Hospital Comn., Albany, fire alarm system at St. Lawrence State Hospital, here. S. W. Jones, state archt.; adv. E. N.-R. Apr. 30.

Street Lighting System — Watertown, N. Y.—May 14, by City, street lighting system. P. B. Sutton, city engr.

Steam Heating Plant—Doylestown, Pa.—May 11, by Comrs. Buck Co., steam heating plant in court house; adv. E. N.-R. Apr. 30.

Transmission Line—Minnesota—May 4, by City of Detroit, E. J. Bestick, clk., transmission line from south city limits to Shoreham; distribution line along shores of Detroit lake and at Shoreham and changes in present line, approximately 263 poles, step up and distribution transformers, $25,000. L. P. Wolff, 903 Globe Bldg., St. Paul, consult. engr.

Street Lighting System—Brainerd, Minn.—May 5, by W. D. McKay, secy. Water & Light Bd., 127 Class A and 75 Class B single light posts, 56,637 ft. No. 6 and 1,026 ft. No. 2 single conductor insulated cable for street lighting system on various streets. $25,000.

Wharf, etc.—Goderich, Ont.—May 12, by S. E. O'Brien, secy. Dept. Pub. Wks., Parliament Bldgs., Ottawa, new wharf and reconstructing breakwater, here, concrete and timber. $35,000. K. M. Cameron, ch. engr.

BIDS RECEIVED

Fill—Phila., Pa. — Apr. 28, by G. W. Biles, dir. Dept. Pub. Wks., fill for stadium east of Broad St. and south of Pattison Ave. Noted Apr. 9.

Mechanical Equipment — Long Island City, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, Apr. 27, mechanical equipment, heating and ventilating apparatus for Jamaica High School, Grand and Chapin Aves., here, from Shevlin Eng. Co., 110 West 34th St., New York City, $238,250. Noted Apr. 23.

Core Borings—Camden, N. J.—State Hy. Comn., Trenton, 1,840 lin.ft. casings to be sunk and core borings, etc. on Bridge Approach Blvd. near Cooper Bridge, here, from Pennsylvania Drilling Co., 1812 West Carson St., Pittsburgh, $4,920. Noted Apr. 9.

CONTRACTS AWARDED

Grain Elevator — Buffalo, N. Y. — J. Stewart Grain Corp., Hurst Bldg., superstructure for grain elevator, Hamburg Turnpike to Monarch Eng. Co., Chamber of Commerce Bldg., $800,000.

Tunnel Improvements—New York, N. Y.—New York State Bridge & Tunnel Comn. and New Jersey Interstate Bridge & Tunnel Comn., Woolworth Bldg., glazed wall tile and enamels, slides, screws, frames, etc., for interior finish of Holland Tunnel, Contr. 7, to L. Del Turco & Bros., Inc., Harrison, N. J., 50% domestic and 50% foreign $881,805. Noted Apr. 16.

Subway — Rochester, N. Y. — Bd. Contr. & Supply, 30 City Hall, subway from Oak St. to Mt. Read Blvd., Contr. 3, to I. M. Ludingtons Sons, Inc., 123 Powers Bldg., $1,937,811. Engrs. est. $2,263,000. Noted Mar. 5.

Subway—Phila., Pa.—H. E. Ehlers, at office Dept. City Transit, 7,184 ft. subway in Broad St. from Stiles to Filbert Sts., to Keystone State Constr. Co., 210 South 13th St., $16,863,437. Noted Mar. 26.

Golf Course—Lakeworth, Fla.—For 400,000 cu.yd. lake front fill for golf course, to Waldeck & Deal Dredging Co., Miami, $97,600.

Grandstand—Canfield, O.—Mahoning Co., Agricultural Society, c/o E. R. Zieger, secy., Wick Bldg., Youngstown, 1 story, 91 x 210 ft., brick and rein.-con. grandstand, to Howell & Noble, Warren. Archts. est. $150,000.

Gas Mains—Illinois—Illinois Power & Light Corp., 414 Missouri Ave., East St. Louis, will build 12 mi. 8 in. gas mains from Edwardsville to East Alton, by day labor. During next 2 years above owner will build 20 mi. additional mains in East Alton, Woodriver, Hartford, Roxana and vicinity. Private plans.

Gas Holder, Manitowoc, Wis.—Wisconsin Fuel & Light Co., 808 Commercial St., 300,000 cu.ft., 2 lift gas holder in steel tank, to E. R. Herman, 808 Commercial St. Archts. est. $50,000.

Dock—Superior, Wis.—Northern Pacific R.R. Co., 5th and Jackson Sts., St. Paul, Minn., 300 x 600 ft. concrete and steel extension to iron ore dock, total length 1,500 ft., on St. Louis Bay, here, to Foley Bros., 209 Gilfillian Bldg., St. Paul, Minn. $500,000 cost plus percentage basis. Owner furnishes steel, etc.

Stadium—Ames, Ia.—Iowa State College, general contract rein.-con. athletic stadium, to F. M. Eller, Ames, $62,700.

Grain Storage Tanks—Hutchinson, Kan.—Security Elevator Co., concrete grain storage tanks, to Jones-Hettelsater Constr. Co., Mutual Bldg., Kansas City, Mo. Engrs. est. $50,000.

Undergrade Crossing—California—State Hy. Comn., Sacramento, undergrade crossing 30 ft. wide, consisting 62 ft. through plate girder, ballast deck bridge on triangular concrete abutments under Western Pacific R.R. tracks, near North Sacramento; undergrade crossing 30 ft. wide, consisting 61 ft. skewed, through steel girder, open deck spans on concrete piers under Sacramento Northern R.R. tracks, near North Sacramento, both Sacramento Co., to Lord & Bishop, Napa, $39,895 and $20,728 respectively. Noted Mar. 26.

Wharf—Oakland, Calif.—General Petroleum Co., Parr Terminal, concrete and timber wharf, water front, to Tibbits-Pacific Co., 16 California St., San Francisco, $60,000.

Materials

BIDS DESIRED

Road Oil—Hartford, Conn.—May 5, by Bd. Contr. & Supply, at Mayor's Office, Municipal Bldg., 300,000 gal. more or less, road oil, with about 45% and 30,000 gal. with about 65% asphaltic base, to Street Dept., f.o.b. tank cars Hartford. E. M. Dahill, secy.; adv. E. N.-R. Apr. 30.

Iron and Steel Castings — New York, N. Y.—May 4, by J. Miller, pres. Manhattan Boro., Municipal Bldg., iron and steel castings to Corporation Yards.

Road Materials—Greensburg, Pa.—May 4, by W. A. Arter, controller Westmoreland Co., road materials, f.o.b. cars at points designated.

Road Materials—St. Paul, Minn.—May 5, by H. W. Austin, city purch. agt., 2,640 bbls. Portland cement, 2,070 cu.yd. crushed rock or gravel, 116 tons asphalt, 193 tons limestone dust, etc. G. M. Shepard, city engr.

Gravel—Port Arthur, Tex.—H. O. Harpin, engr., Port Arthur, taking bids 18,000 sq.yd. clay gravel, f.o.b. trucks Port Arthur. $25,000. J. P. Logan, mayor.

Road Oil—Saulte Ste. Marie, Ont.—May 1, by L. R. Brown, city engr., 20,000 gal. road oil, 40% asphaltic or tar. $5,000.

BIDS RECEIVED

Bituminous Material — Albany, N. Y. — A. W. Brandt, comr. highways, 55 Lancaster St., from L. L. Gowdy, 36 State St., bituminous materials, Contr. 8 $14,850, Contr. 6 $149,949; from Barrett Co., 40 Rector St., New York City, Contr. 4 $40,323, Contr. 5 $315,897; from Atlantic Refining Co., 291 Bway., New York City, Contr. 1 $518,137, Contr. 2 $214,516, Contr. 3 $31,141. Noted Feb. 26.

Pipe—Baltimore, Md.—Bd. Awards, 4,900 lin.ft. 24 in., 1,700 lin.ft. 27 in., 1,800 lin.ft. 30 in., 1,900 lin.ft. 33 in., 3,000 lin.ft. 36 in., 3,750 lin.ft. 42 in., 1,000 lin.ft. 48 in., 700 lin.ft. 54 in. and 300 lin.ft. 60 in. rein.-con. pipe, Contr. 54, from Lock Joint Pipe Co., 9 Rutledge Ave., Ampere, N. J., $46,925.

CONTRACTS AWARDED

Gravel—Asbury Park, N. J.—City Comn., 20,000 tons gravel to Bennett & Shock Gravel & Sand Co., 3rd Ave., Spring Lake, $1.13 per ton.

Steel—Belleville, Mich.—Wayne Co. Rd. Comn., 1103 Real Estate Exch. Bldg., Detroit, 210,000 lb. steel for superstructure of grade separation No. 822,001, Belleville Rd., here, to McClintic-Marshall Co., 1242 Book Bldg., Detroit,